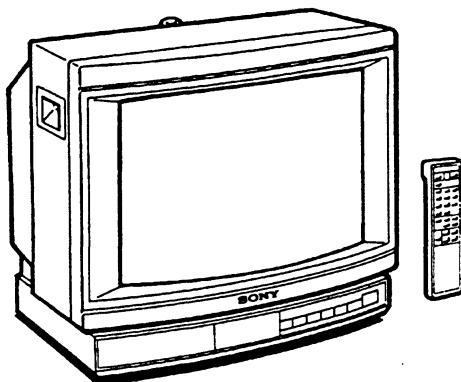


SERVICE MANUAL

OIRT Model

Chassis No. SCC-D26C-A



GP-1A CHASSIS

Note: The service manual for RM-687C
has been issued separately.

MODELS OF THE SAME SERIES	
KV-1984MT	KV-1484P
KV-2184MT	KV-1484MT/A
KV-2134M3	

SPECIFICATIONS

Television system M, B/G, I, D/K
Color system PAL, SECAM, NTSC_{3.58}
NTSC_{4.43}

Channel coverage

Television system	M	B/G	I	D/K
Low VHF band	A2 - A6	E2 - E4	-	R1 - R5
High VHF band	A7 - A13	E5 - E12	-	R6 - R12
UHF	A14 - A79	E21 - E69	B21 - B68	R21 - R60

Picture tube Trinitron tube
Approx.49cm (19 inches)
(Approx.46cm picture
measured diagonally)

Antenna 75-ohm standard coaxial
socket

Speaker Approx.9×5cm
Audio output 2W

Input
Power requirements
Power consumption
Dimensions (w/h/d)
Weight
Accessories supplied
VIDEO IN/AUDIO IN jacks :
phono jacks
Video : 1Vp-p, 75 ohms
Audio : 500mVrms, high
impedance
110-240VAC, 50/60Hz
85W
Approx.472×439×462mm
(185/8×171/4×181/4 inches)
Approx.19kg(41lb)
RM-687C Remote commander(1)
R6(sizeAA)batteries(2)
VHF telescopic dipole antenna(1)
Antenna connector(300-75ohm
matching transformer is built in.)(1)
AC power cord plug adaptor(1)

Design and specifications are subject to change without notice.

TRINITRON® COLOR TV
SONY®



MICROFILM

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WARNING !!

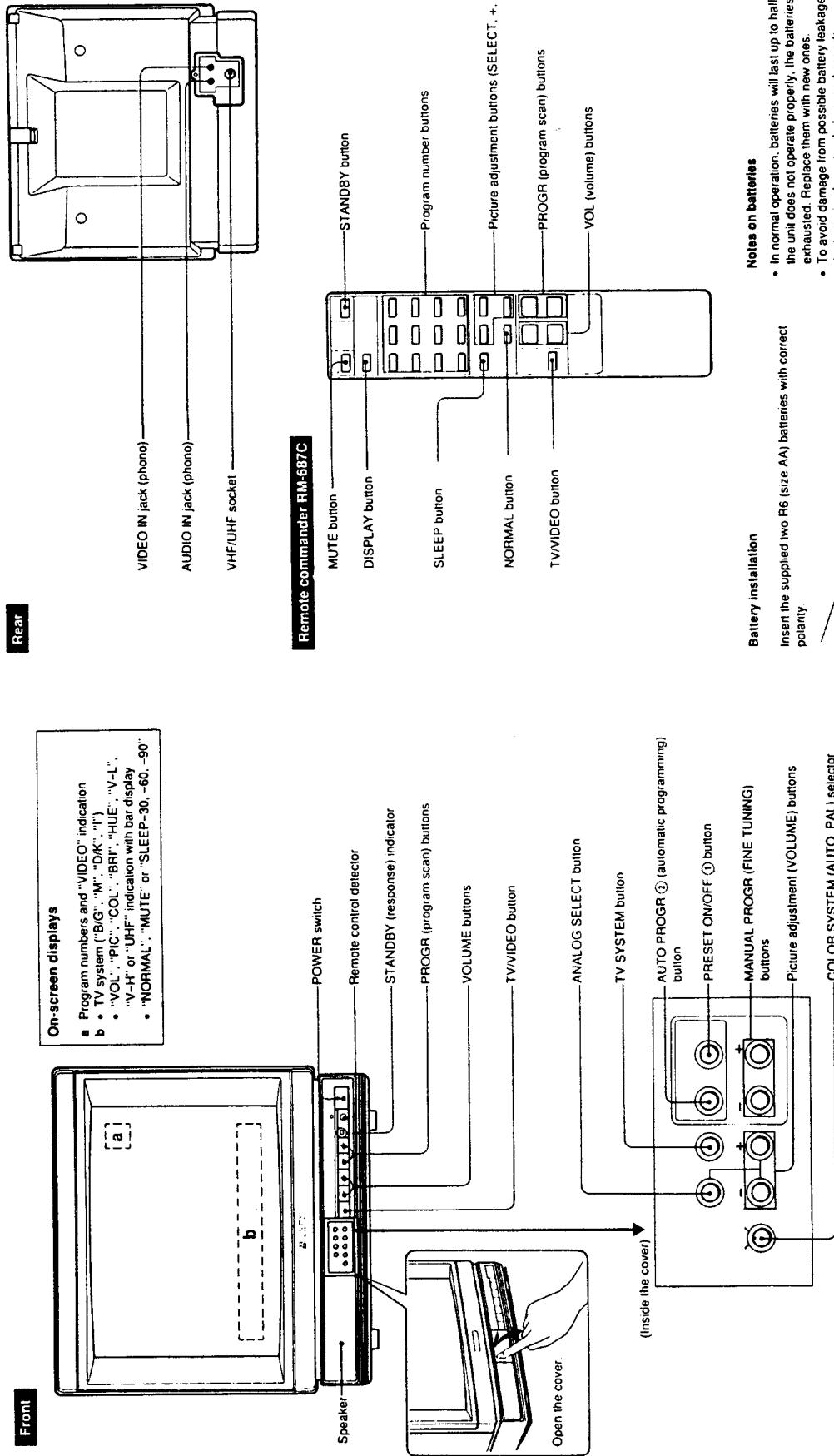
AN ISOLATION TRANSFORMER SHOULD BE USED
DURING ANY SERVICE TO AVOID POSSIBLE SHOCK
HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CON-
NECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

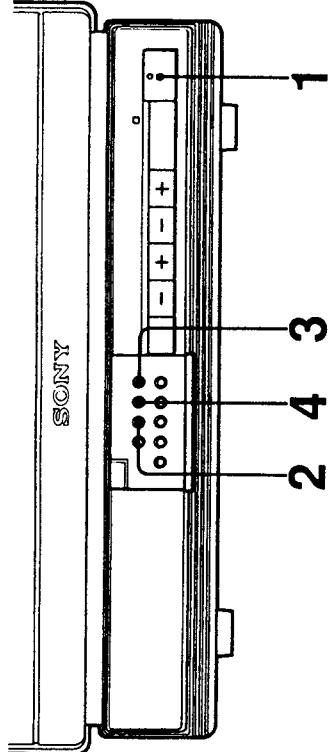
SECTION 1 GENERAL

1-1. PARTS IDENTIFICATION

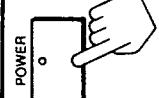


1-2. PRESETTING THE RECEIVABLE CHANNELS

Automatic Presetting



1 Turn the TV on.



POWER
o

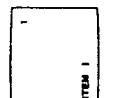
2 Select the TV system. (See page 8.)



TV
SYSTEM

1

3 Press PRESET ON/OFF.



PRESET
ON/OFF

1

4 Press AUTO PROGR. ②.



AUTO
PROGR

②

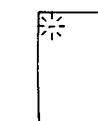
Up to 30 receivable channels are preset in numerical sequence beginning from program number 1. When all receivable channels are preset, the program number 1 lights steadily on the screen and the programming mode is automatically released.



V.L. →



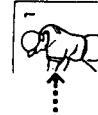
V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



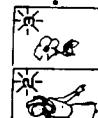
V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →



V.L. →



V.H. →

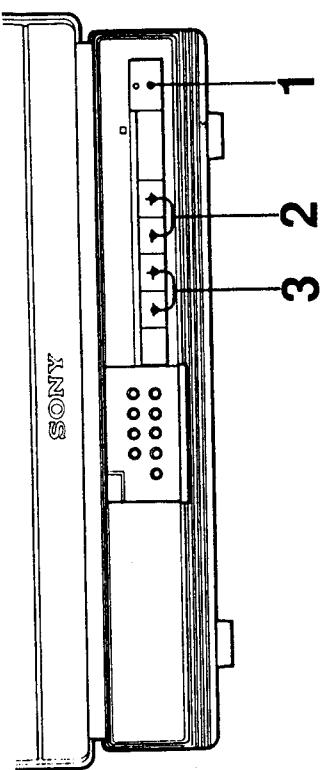


V.L. →



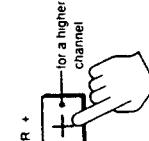
V.H. →





Commander	TV
To turn off the TV for a short period of time	Press STANDBY. —
To turn on the TV from the Standby mode	Press a program number or PROGR buttons. Press PROGR + or - button.
To cut off the power completely	—
To keep the channel display (program number and VIDEO number) on the screen	Press DISPLAY. —
To turn off the program number display	Press DISPLAY. —
To display the TV system indication	Press DISPLAY. —
The STANDBY (response) indicator blinks when the button on the TV or on the commander is pressed. It lights steadily when the TV is turned off with the STANDBY button on the commander.	

- 1 Turn the TV on.

- 2 Select the desired channel.

 - PROGR +
 - for a lower channel
 - for a higher channel
- 3 Adjust the volume.

 - VOLUME -
 - less volume
 - more volume
 - VOL. -

Skipping Unused Program Positions

After presetting channels, unused or undesired program positions can be skipped.

1 Turn the TV on.

2 Press **RESET ON/OFF**. Program number on the screen blinks. A colored Segmented bar appears to indicate approximate location of the channel being tuned in.

1 Selected the position to be restored using the program number button on the commander.

2 Perform steps 2 through 5 in "Manual presenting". Otherwise, perform automatic presetting and reset all channels.

Reflecting the stripped channel

After presetting channels, unused or undesired program
positions can be skipped.

2 Press **PRESET ON/OFF**.
Program number on the screen blinks.
A colored segmented bar appears to indicate
approximate location of the channel being
tuned in.

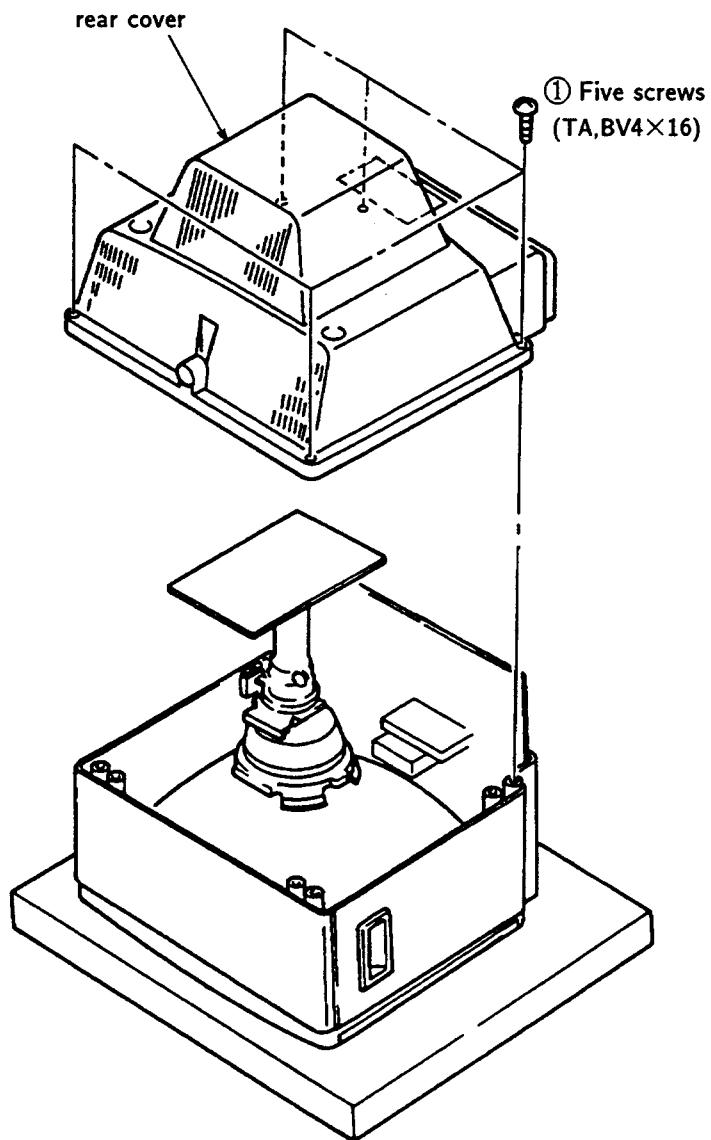
11

- 3** Press PROGR to select the position to be skipped.
- 4** Press NORMAL on the commander. Repeat steps 3 and 4 for other positions to be skipped.
- 5** Press PRESET ON/OFF.

SECTION 2 DISASSEMBLY

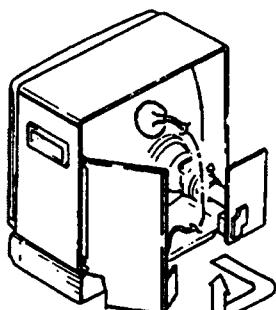
2-1. REAR COVER REMOVAL

Note: Follow the disassembly procedure in the numerical order given.



SERVICE POSITION FOR A BOARD

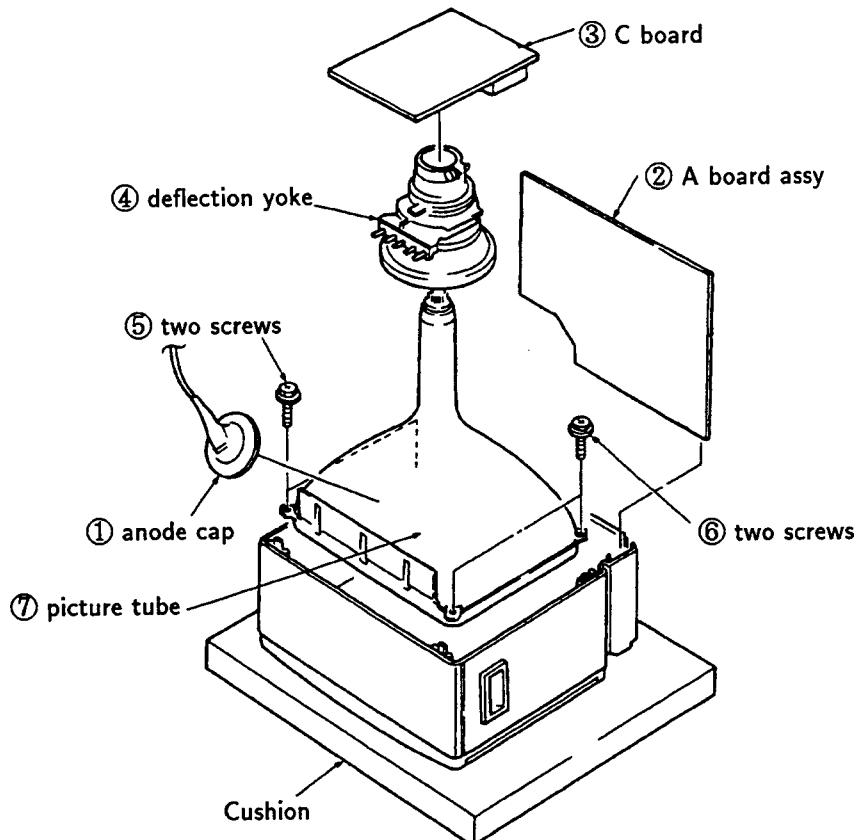
A board
Pull out A block assy
to the direction shown
by the arrow.



CAUTION :

Do not place the control volumes and
switches down to the working bench.
It is fragile.

2-2. PICTURE TUBE REMOVAL

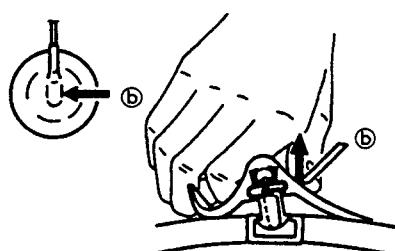


• REMOVAL OF ANODE-CAP

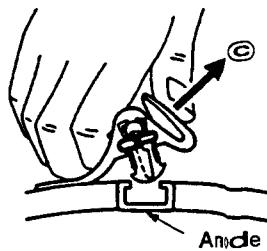
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ④.



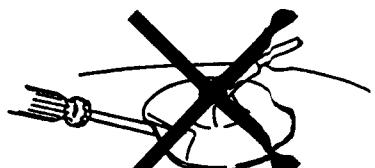
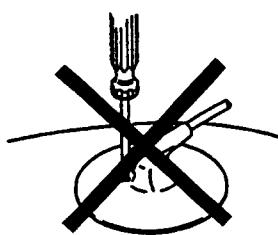
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⑤.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⑥.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch should be set as follows unless otherwise noted :

PICTURE controlnormal

BRIGHTNESS controlnormal

Preparation:

- Feed in the white pattern signal.
- Before starting, degauss the entire screen.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
2. Loosen the deflection yoke mounting screw, and set the purity control to the center as shown in Fig.2
3. Turn the raster signal of the pattern generator to green.
4. Move the deflection yoke backward, and adjust with the purity control so that green is in the center and red and blue are at the sides evenly. (Fig.3)
5. Move the deflection yoke forward, and adjust so that the entire screen becomes green. (Fig.1)
6. Switch over the raster signal to red and blue and confirm the condition.
7. When the position of the deflection yoke is determined, tighten it with the deflection yoke mounting screw.
8. When landing at the corner is not right, adjust by using the disk magnets. (Fig.4)

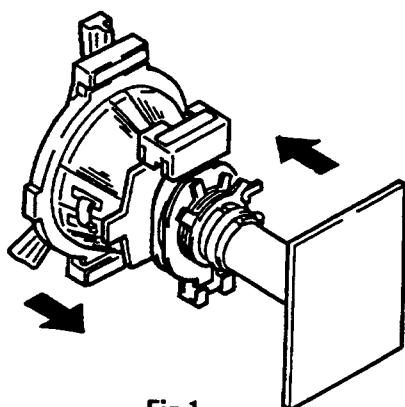


Fig.1

Perform the adjustments in order as follows:

1. Beam Landing

2. Convergence

3. Focus

4. White Balance

Note: Test Equipment Required.

1. Color bar Pattern Generator

2. Degausser

3. DC Power Supply

4. Digital multimeter

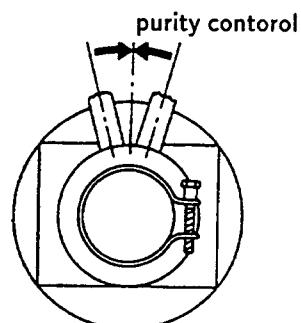


Fig.2

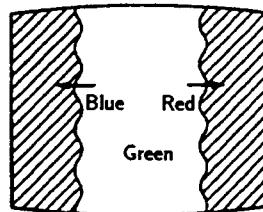


Fig.3

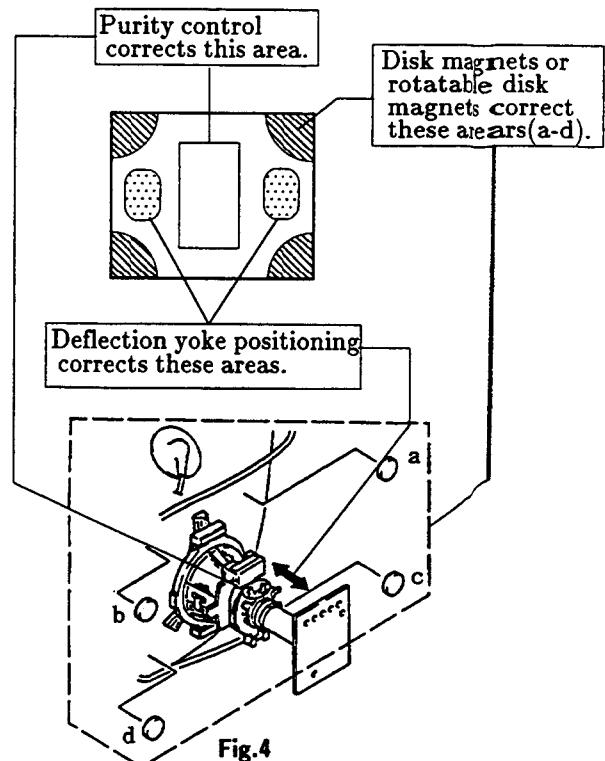


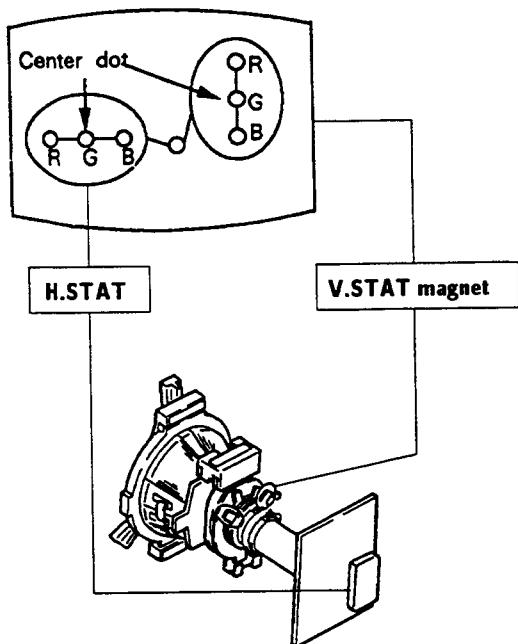
Fig.4

3-2. CONVERGENCE

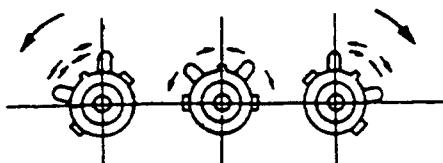
Preparation:

- Before startin,perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

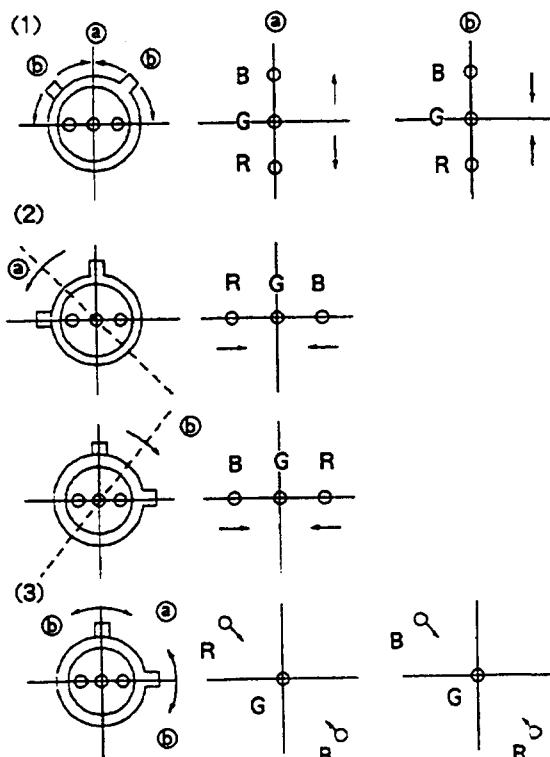
(1) Horizontal and Vertical Static Convergence



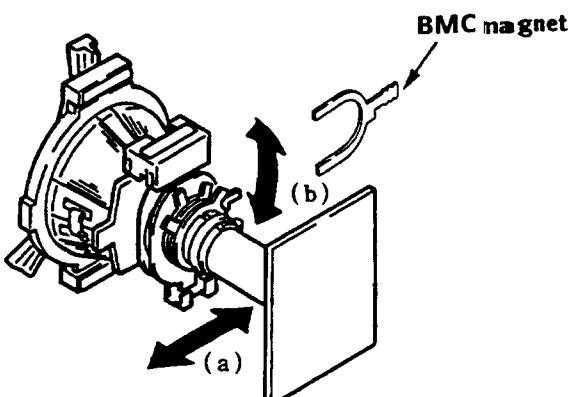
1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ② and ⑤, red, green and blue dots move as shown below.



If the blue dot does not converge with red and green dots, perform following steps.
Move BMC magnet (a) to correct insufficient H.static convergence.
Rotate BMC magnet (b) to correct insufficient V.static convergence.
In either case, repeat Beam Landing Adjustment.

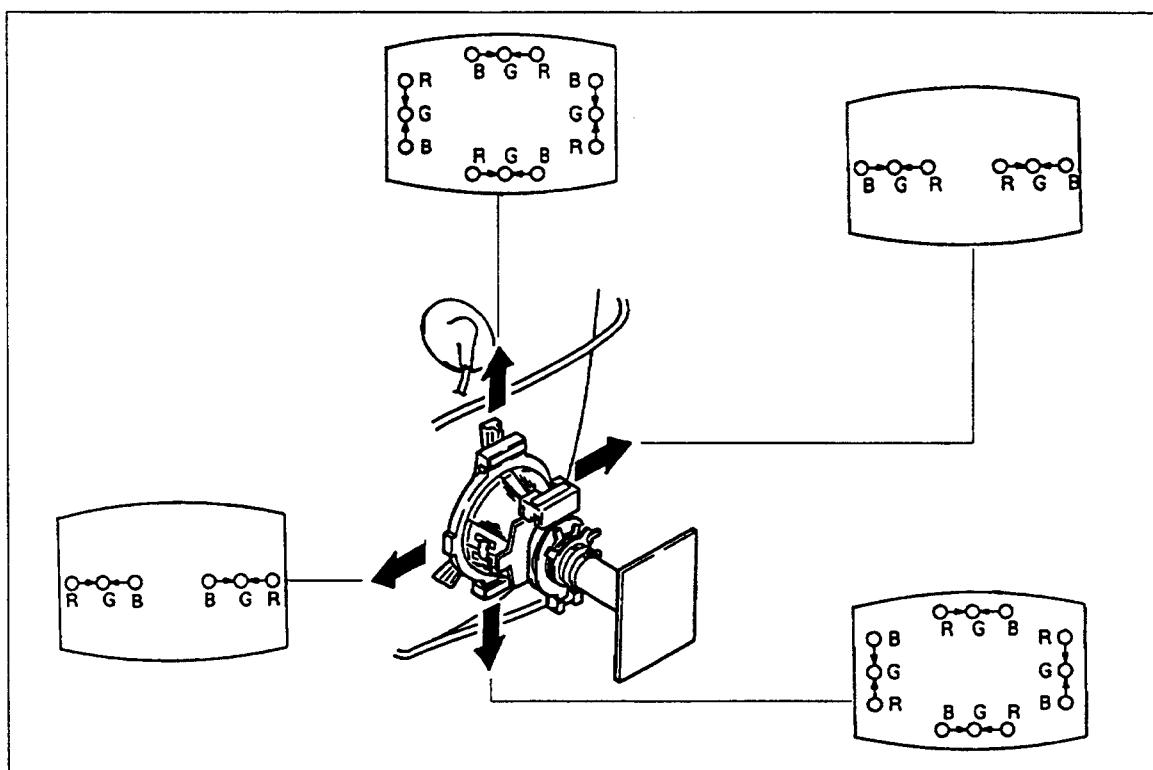


(2) Dynamic Convergence Adjustment

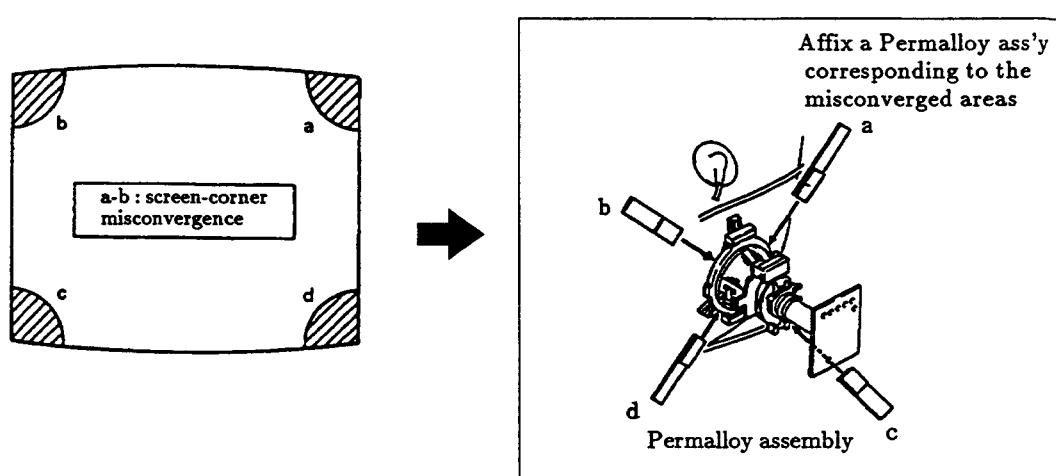
Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



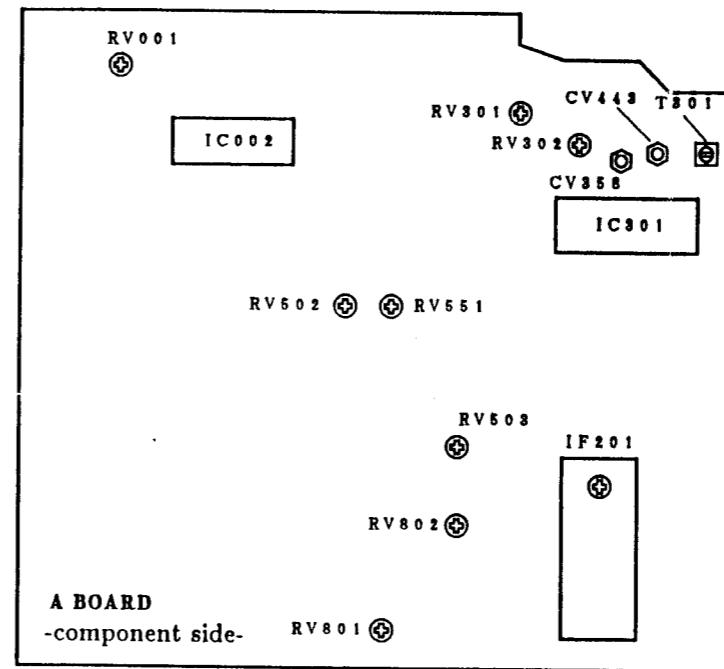
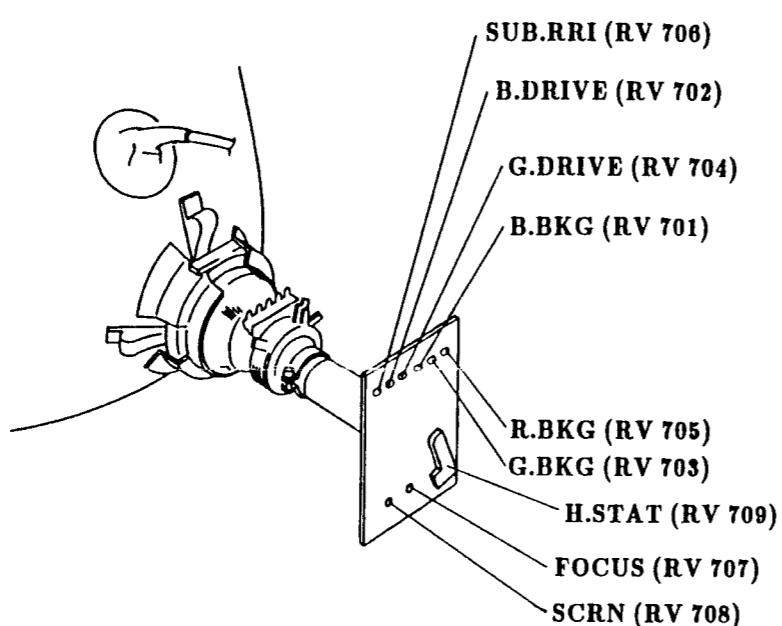
(3) Screen-corner Convergence



SECTION 4

CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS



IF201 (RF AGC)
CV358 (APC.NTSC)
CV443 (APC.PAL)
RV001 (CH DISPLAY)
RV801 (DELAY)
RV802 (PHASE)
RV502 (V.LIN)
RV503 (V.SIZE)
RV551 (V.CENT)
RV801 (H.CENT)
RV802 (H.SIZE)
T801 (DAT)LINE CRAWL

3-3. FOCUS

Adjust FOCUS control for best picture.

3-4. SCREEN(G 2) and WHITE BALANCE

[SCREEN(G2)]

1. Input a dots pattern.
2. Set the PIC,BRT controls at minimum and COLOR control at normal.
3. Confirm the BKG voltage is less than 165 Vdc when turning RV 701 (R.BKG), RV 703 (G.BKG) and RV 705 (B.BKG).
4. Note the color when becomes visible first when turning RV708 (SCRN).

[WHITE BALANCE(Cut off)]

1. Input a color-bar signal.
2. Set the PIC control to minimum and set the BRT control at normal.
3. Turn RV 704 (B.DRIVE) and RV 702 (G.DRIVE) fully clockwise.
4. Set RV701 (R.BKG), RV703 (G.BKG) and RV705 (B.BKG) to minimum.
5. Turn RV 709 (SUB BRT) slowly to obtain a faintly visible blue stripe.
6. Switch over all white signal.
7. Adjust BKG controls for best white balance.
8. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
9. Repeat steps 7 and 8.

RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT (RV001)

1. Set PIC control to maximum.
2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.

A · P · C ADJUSTMENT (CV443) (PAL)

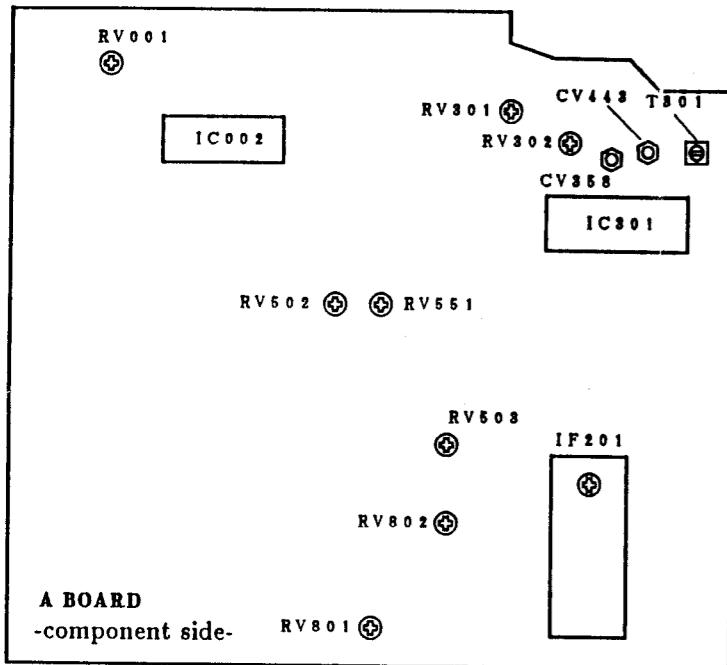
1. Short circuit between pin ④ and pin ⑦ of IC301 with jumper.
2. Input the PAL color-bar signal.
3. Set the PIC, COL, and BRT controls to normal.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

A · P · C ADJUSTMENT (CV358) (NTSC)

1. Short circuit between pin ④ and pin ⑦ of IC301 with a jumper.
2. Input NTSC 3.58 color-bar signal.
3. Set the PIC, COL and BRT controls to normal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

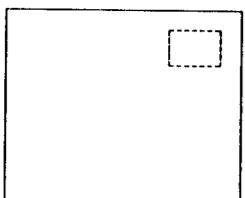


RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

CHANNEL DISPLAY POSITION ADJUSTMENT (RV001)

1. Set PIC control to maximum.
2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



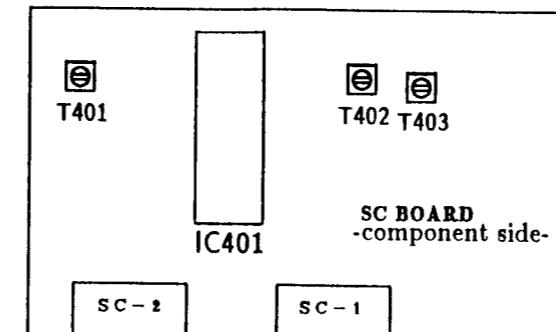
A · P · C ADJUSTMENT (CV443) (PAL)

1. Short circuit between pin ④ and pin ⑦ of IC301 with jumper.
2. Input the PAL color-bar signal.
3. Set the PIC, COL, and BRT controls to normal.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

A · P · C ADJUSTMENT (CV358) (NTSC)

1. Short circuit between pin ④ and pin ⑦ of IC301 with a jumper.
2. Input NTSC 3.58 color-bar signal.
3. Set the PIC, COL and BRT controls to normal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

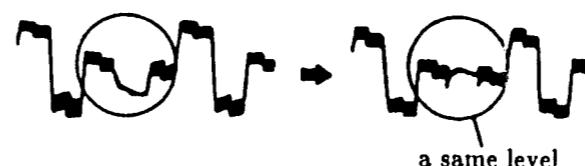
4-2. SC BOARD ADJUSTMENTS



**T401 (DISCRI)
T402 (DISCRI)
T403 (BELL FILTER)**

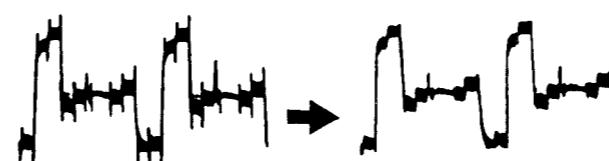
DISCRI ADJUSTMENT (T401, T402)

1. Input the SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to the pin ④ (B-Y) and pin ③ (R-Y) of SC-1 connector.
3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



BELL FILTER ADJUSTMENT (T403)

1. Input the SECAM color-bar signal.
2. Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
3. Adjust T403 as shown the following figure.



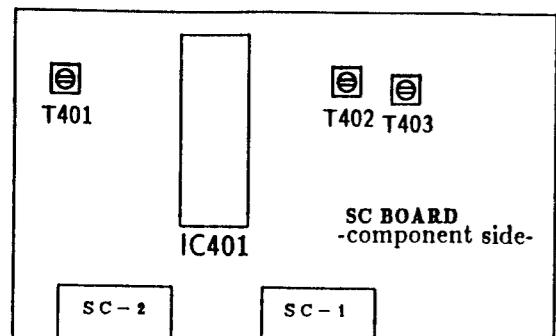
ANTI PAL, LINE CRAWL (RV301, RV302, T801)

- ANTI PAL ADJUSTMENT
- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL, and BRT controls to normal.
- 3. Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
- 4. Adjust RV301 for the best anti-pal effect to obtain the waveform shown.

wrong pattern

- LINE CRAWL ADJUSTMENT
- 1. Input the PAL color-bar signal.
- 2. Set the PIC, COL, and BRT controls to normal.
- 3. Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
- 4. Adjust T301 for the best line crawl effect to obtain the waveform shown.

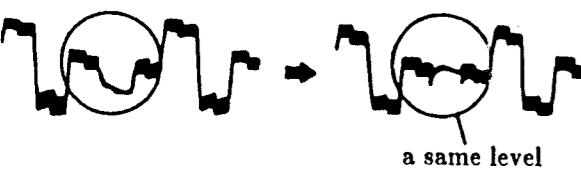
4-2. SC BOARD ADJUSTMENTS



**T401 (DISCRI)
T402 (DISCRI)
T403 (BELL FILTER)**

DISCRI ADJUSTMENT (T401, T402)

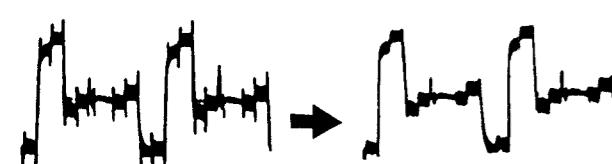
1. Input the SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to the pin ④ (B-Y) and pin ③ (R-Y) of SC-1 connector.
3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.



a same level

BELL FILTER ADJUSTMENT (T403)

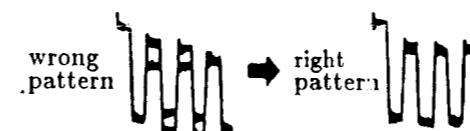
1. Input the SECAM color-bar signal.
2. Connect the oscilloscope to pin ③ (R-Y) of SC-1 connector.
3. Adjust T403 as shown the following figure.



ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301, RV302, T301)

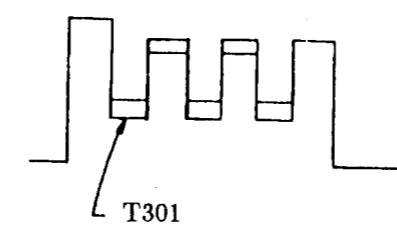
• ANTI PAL ADJUSTMENT

1. Input the PAL color-bar signal.
2. Set the PIC, COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust RV301 (DELAY) and RV302 (PHASE) to obtain the waveform as shown below.



• LINE CRAWLING ADJUSTMENT

1. Input the PAL color-bar signal.
2. Set the PIC, COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust T301 for minimum line crawling.



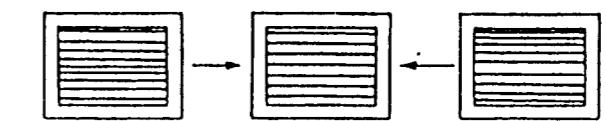
RV802 H.SIZE (HORIZONTAL SIZE)



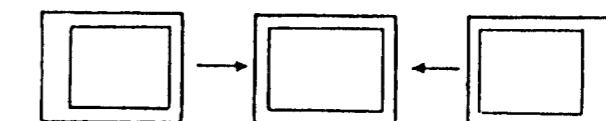
RV503 V.SIZE (VERTICAL SIZE)



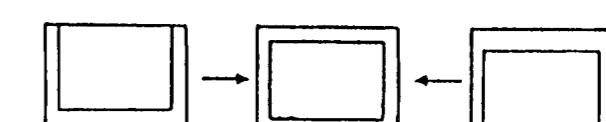
RV502 V.LIN (VERTICAL LINEARITY)



RV801 H.CENT (HORIZONTAL CENTER)

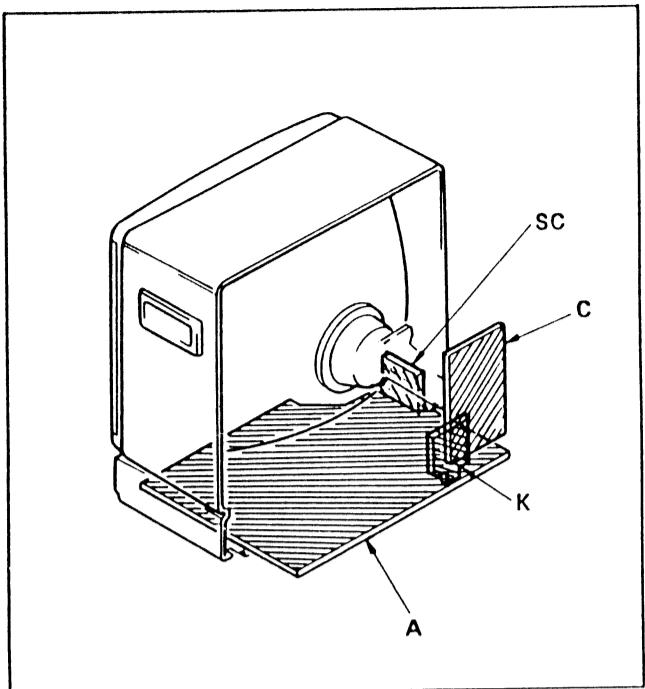


RV551 V.CENT (VERTICAL CENTER)



SECTION 5 DIAGRAMS

5.1. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm
Rating electrical power $\frac{1}{4}$ W

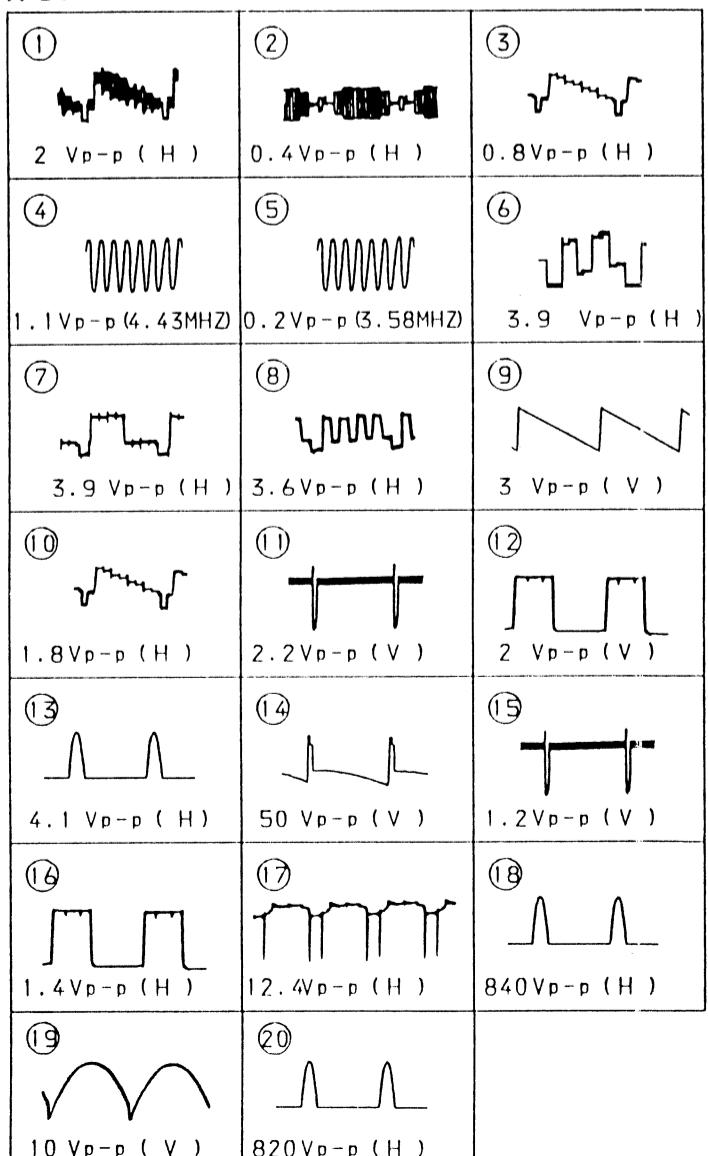
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10 \text{ M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- no mark : with PAL color-bar signal received.
() : with SECAM color-bar signal received.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : signal path.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

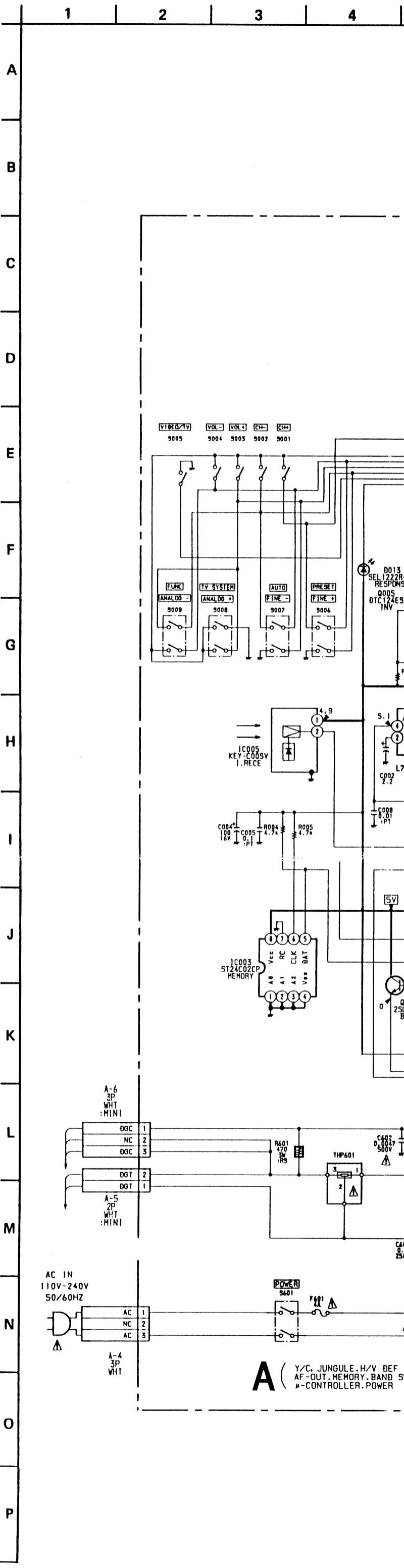
Reference Information

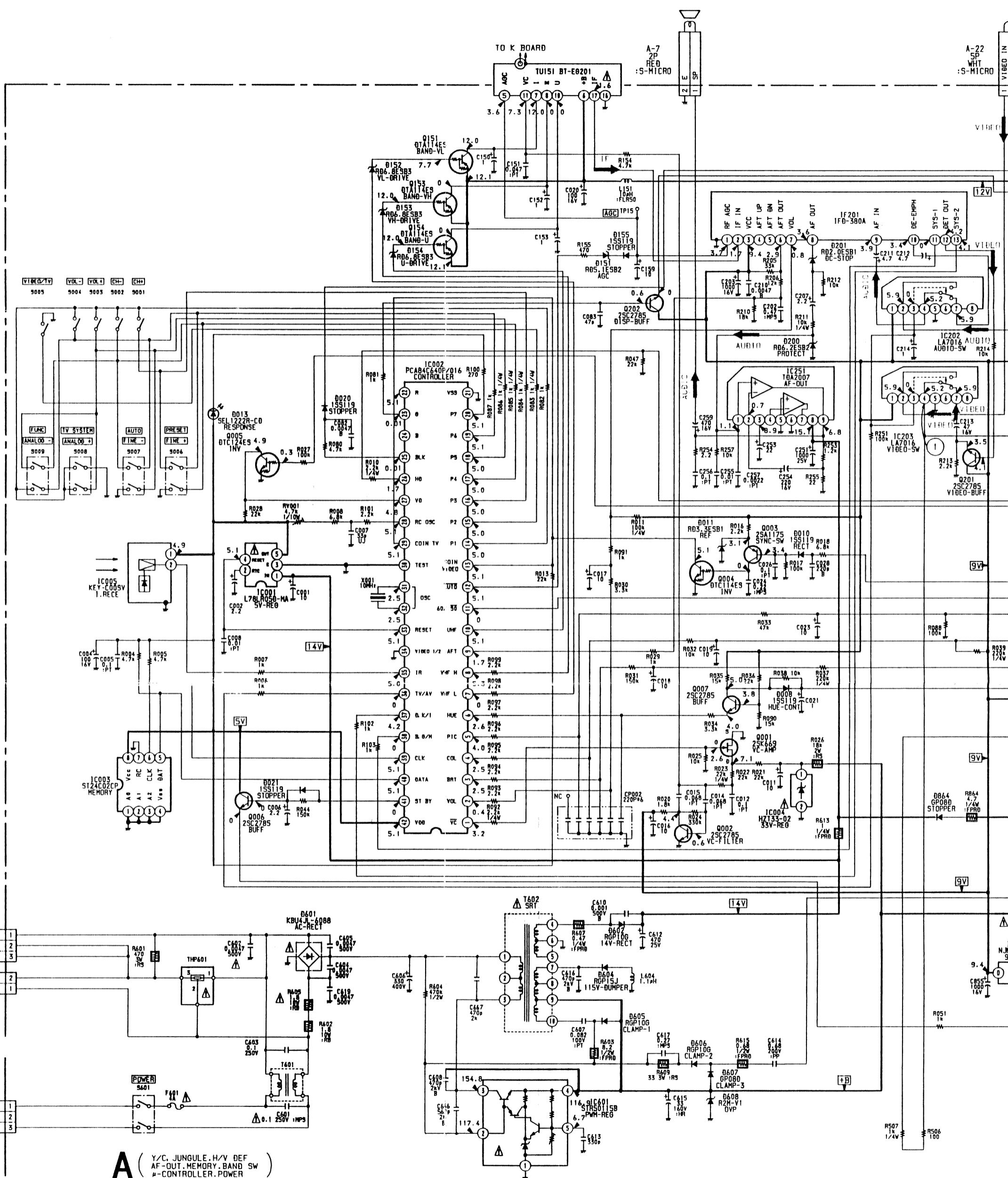
RESISTOR	: RN METAL FILM : RC SOLID : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE : RW NONFLAMMABLE WIREWOUND : RS NONFLAMMABLE METAL OXIDE : RB NONFLAMMABLE CEMENT
COIL	: LF-8L MICRO INDUCTOR
CAPACITOR	: TA TANTALUM : PS STYROL : PP POLYPROPYLENE : PT MYLAR : MPS METALIZED POLYESTER : MPP METALIZED POLYPROPYLENE : ALB BIPOLAR : ALT HIGH TEMPERATURE : ALR HIGH RIPPLE

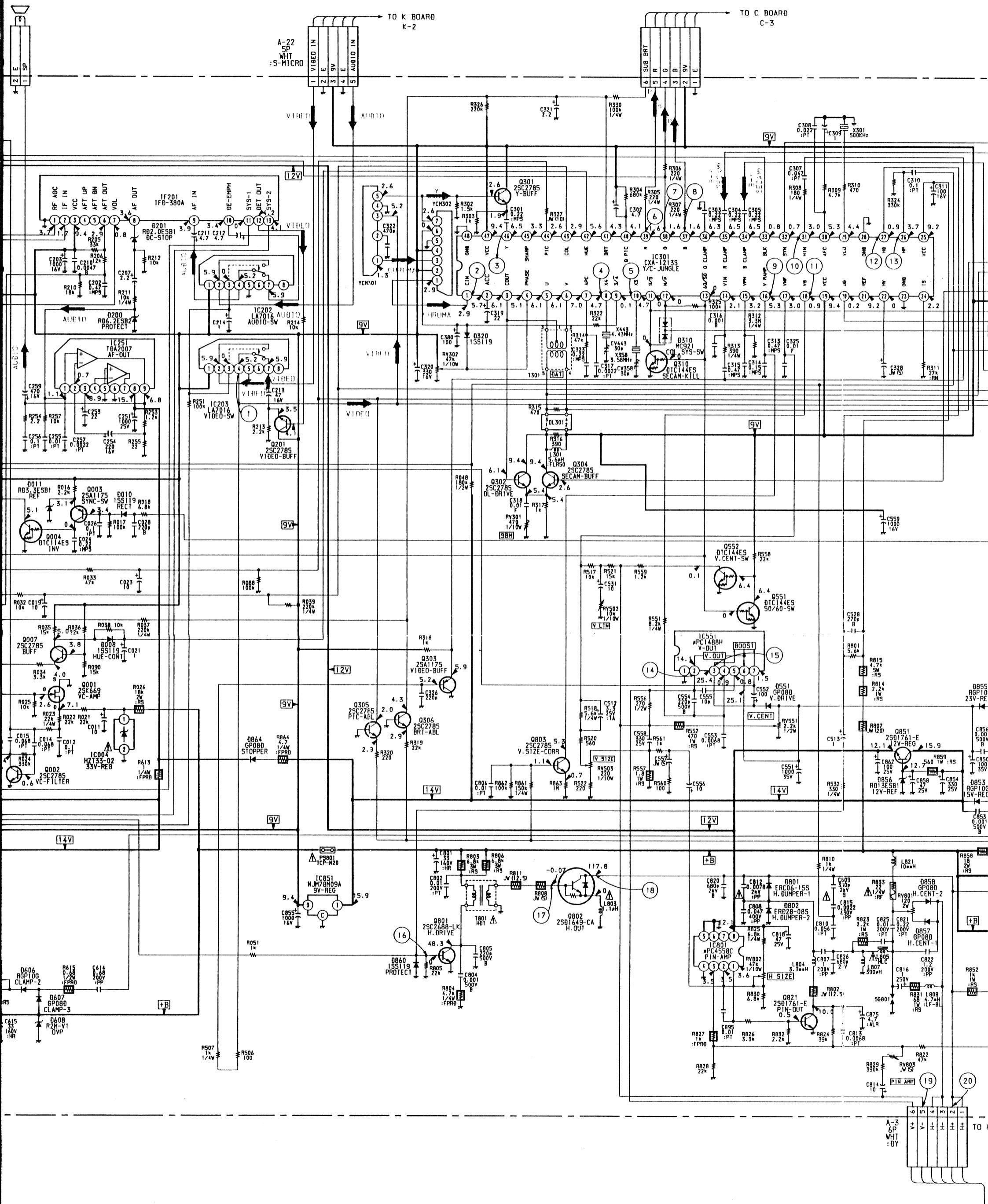
A BOARD WAVEFORM

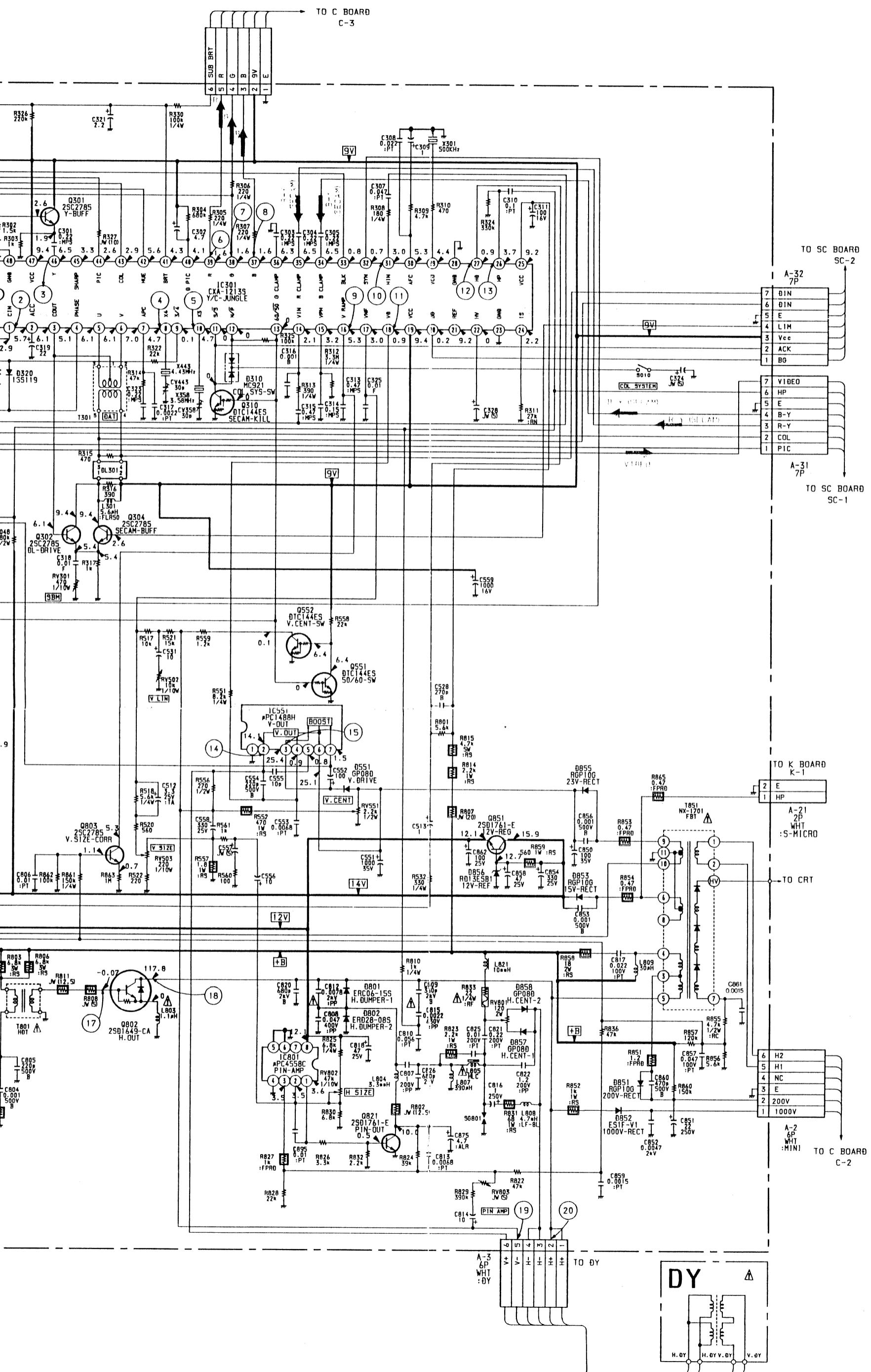


5.2. SCHEMATIC DIAGRAM (1)





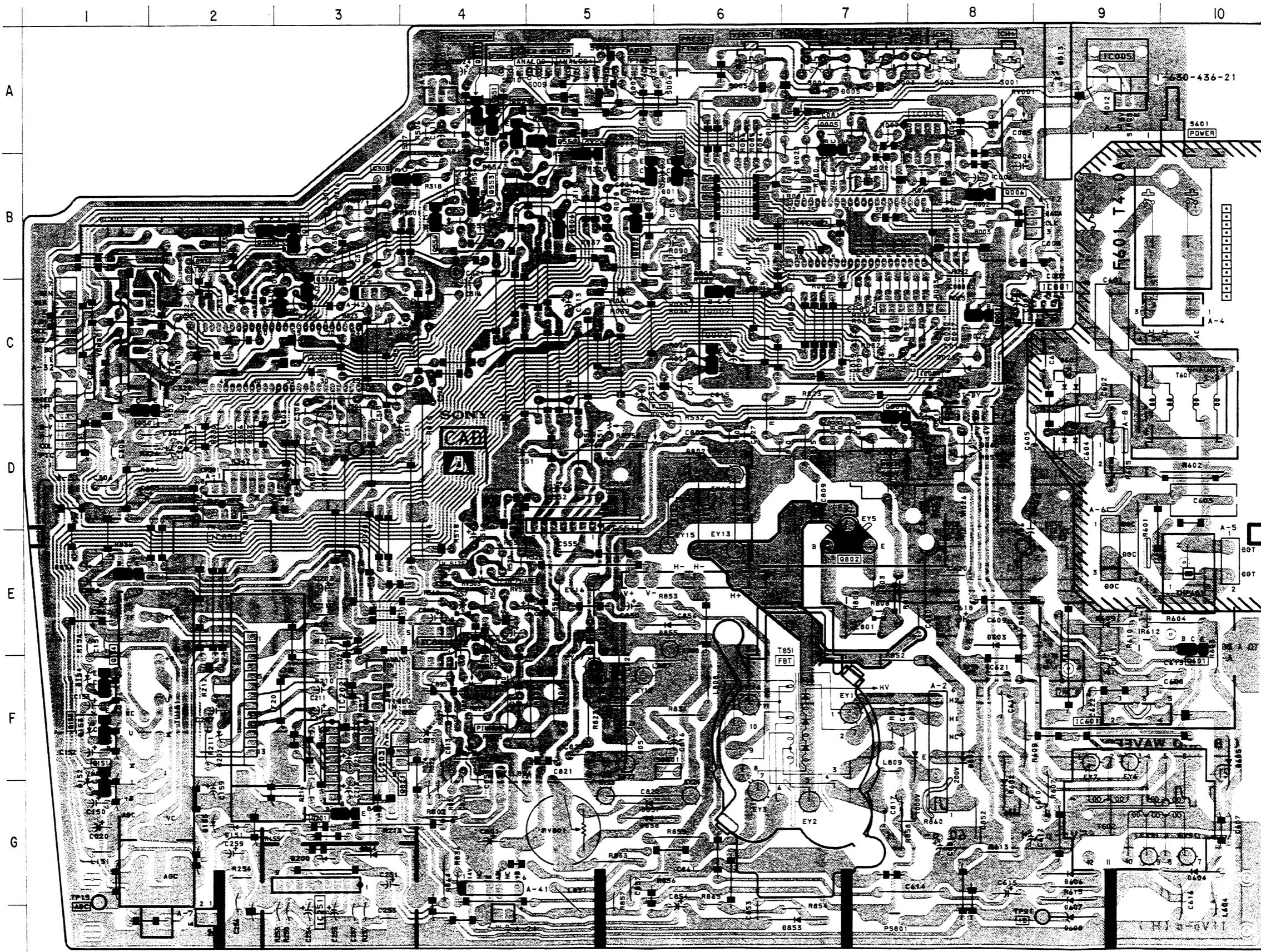




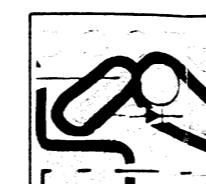
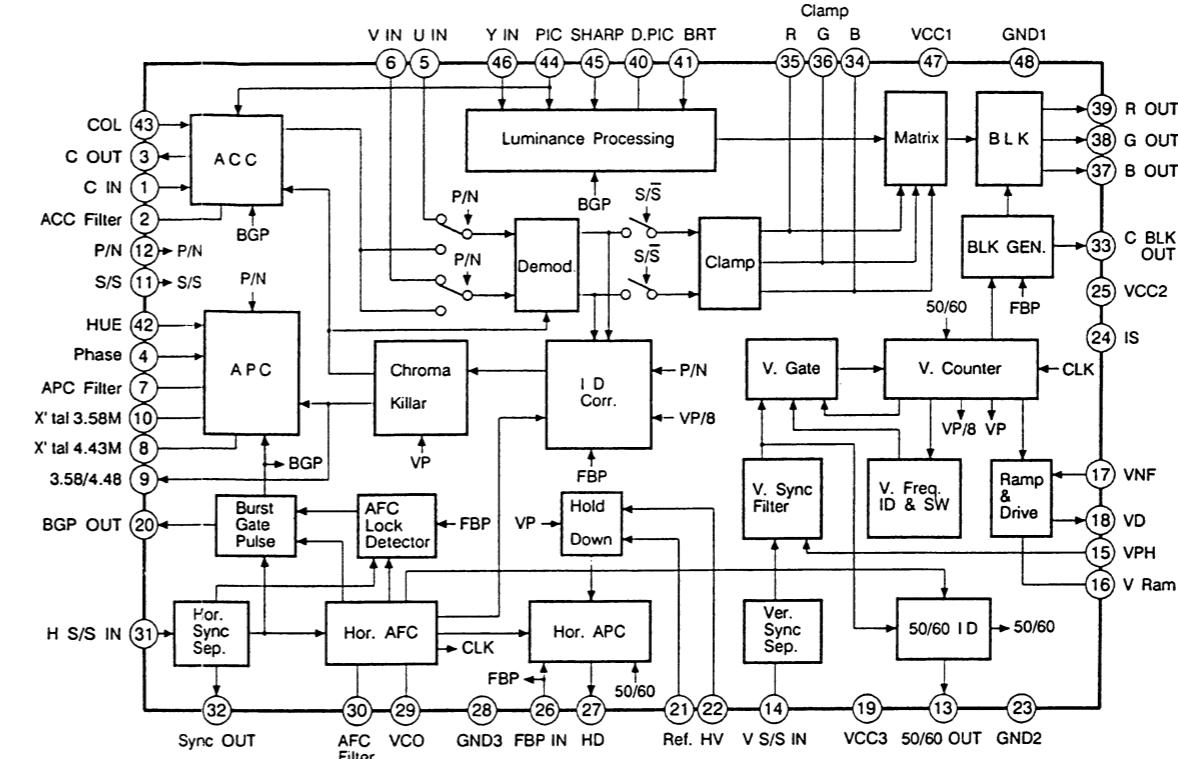
5-3. PRINTED WIRING BOARD (1)
—CONDUCTOR SIDE—

[Y/C, JUNGLE, H/V DEF
AF-OUT, MEMORY, BAND SW
μ -CONTROLLER, POWER]

A



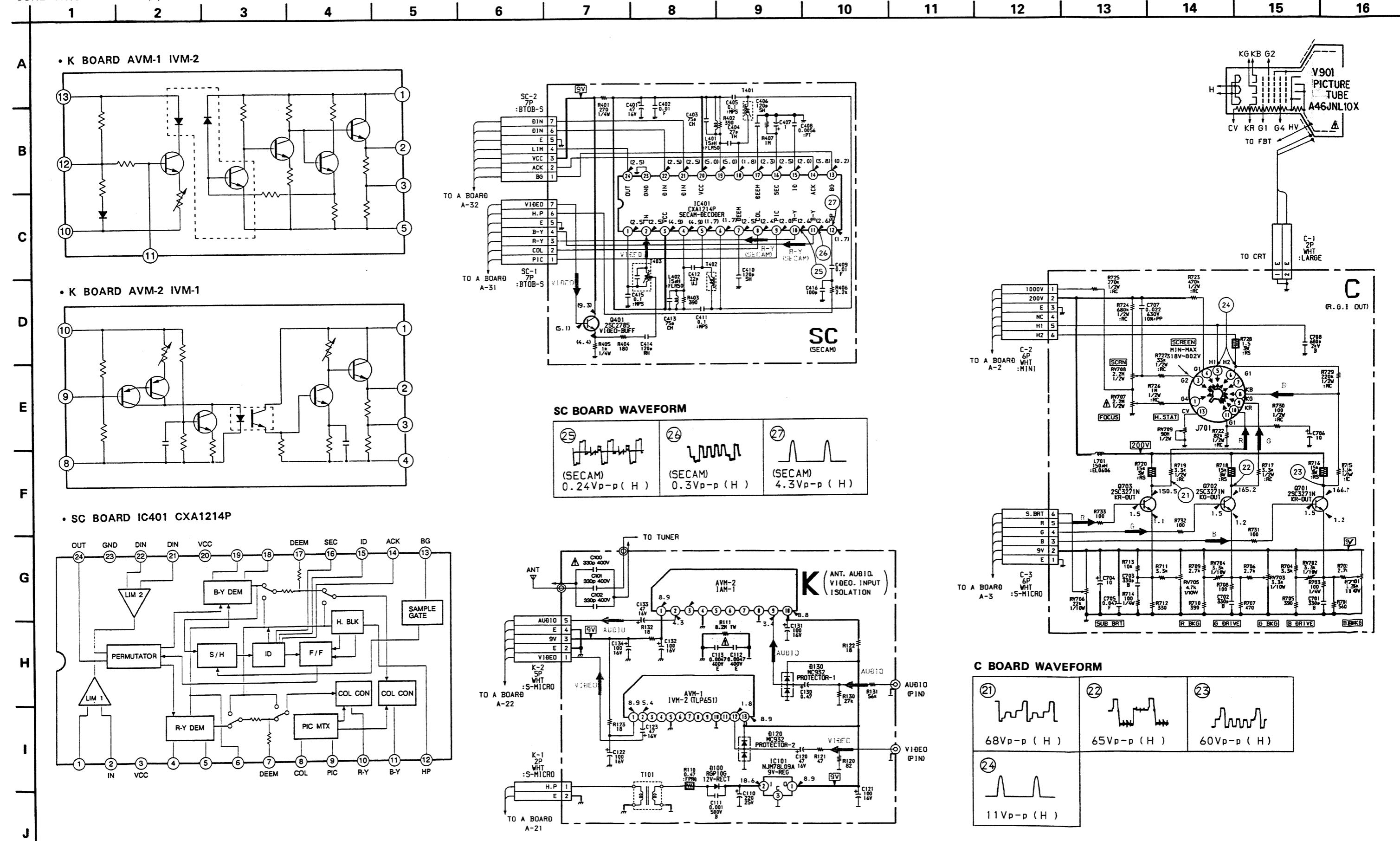
• A BOARD IC301 CXA1213S



NOTE

NOTE: The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

SCHEMATIC DIAGRAM (2)



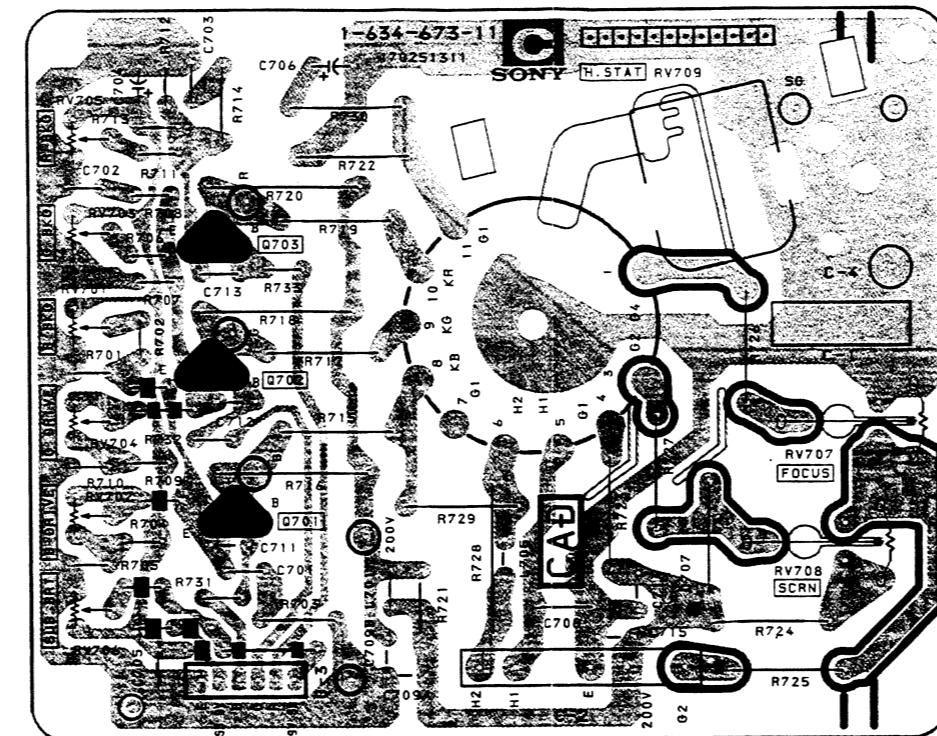
PRINTED WIRING BOARD (2)

-CONDUCTOR SIDE-

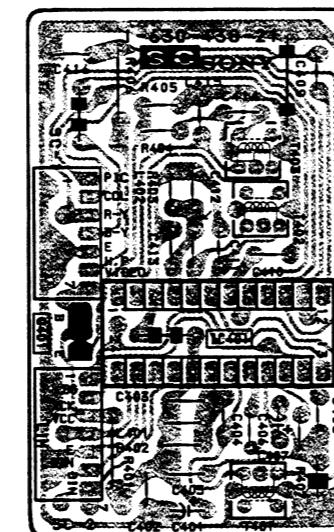
C [R · G · B OUT] **SC** [SECAM] **K**

K ANT. AUDIO
VIDEO INPUT

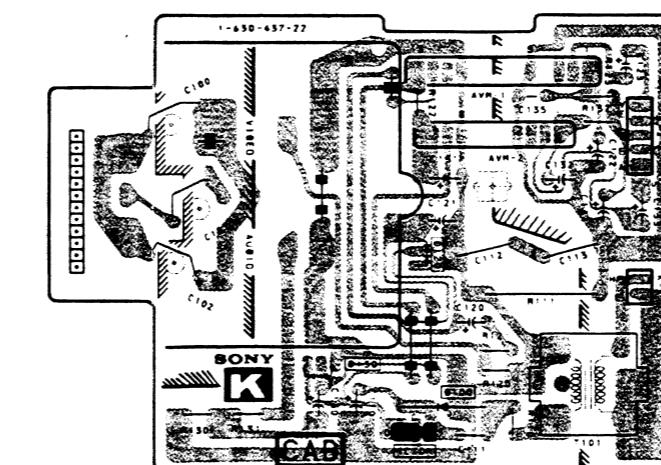
-C BOARD-



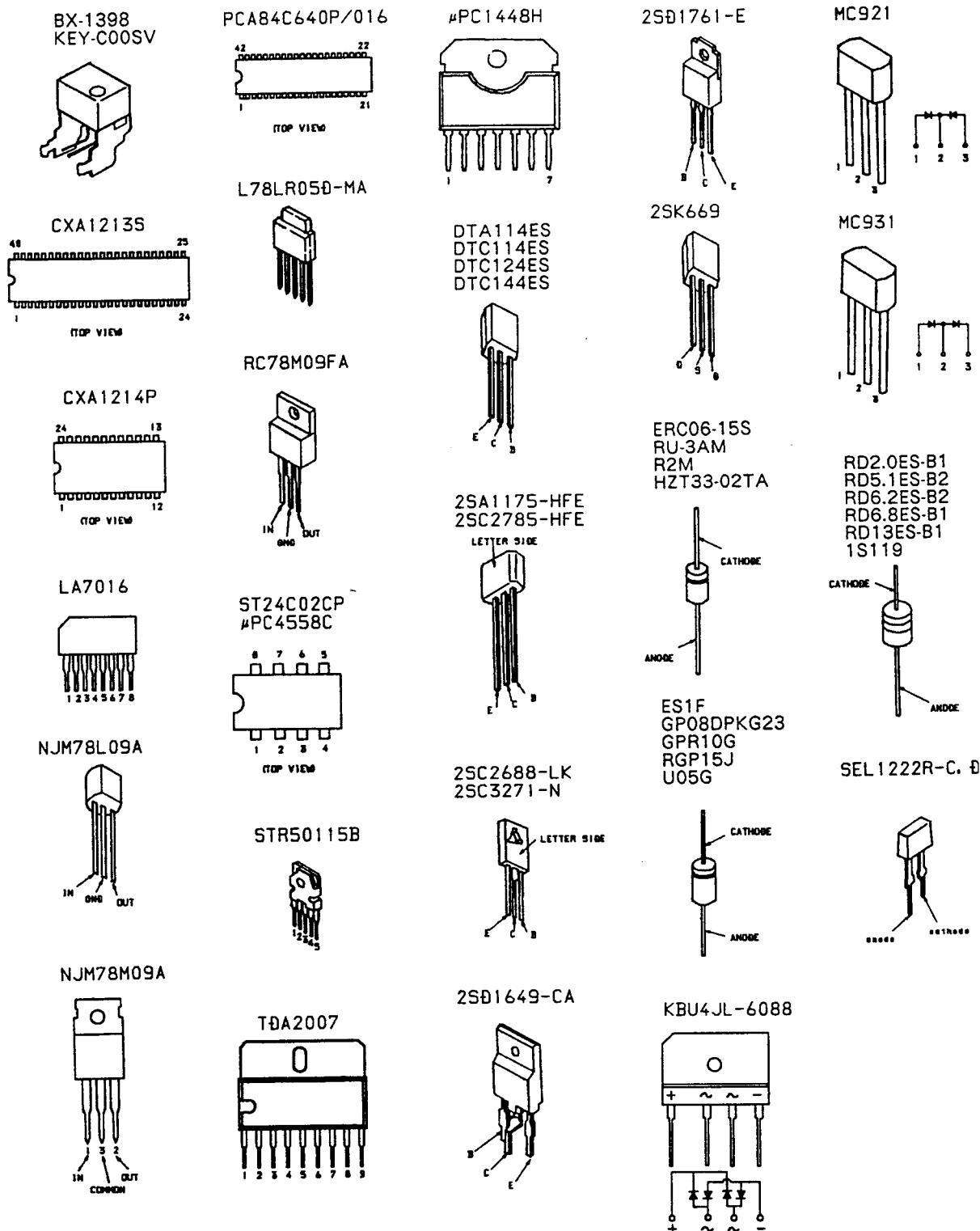
-SC BOARD-



-K BOARD-



5-4. SEMICONDUCTORS



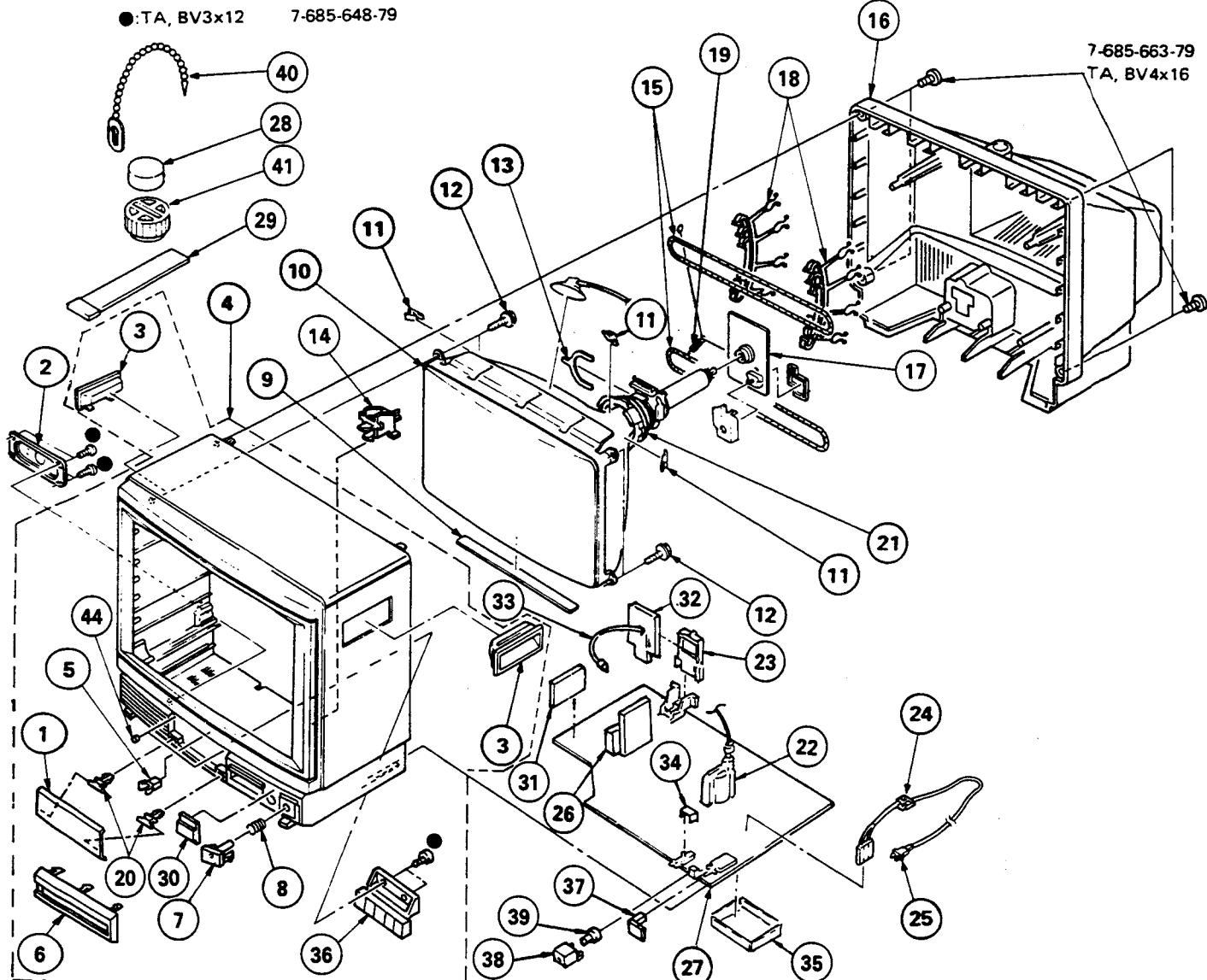
SECTION 6
EXPLODED VIEW

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4380-060-1	DOOR ASSY, CONTROL		24	A-4-389-778-01	HOLDER, AC CORD	
2	1-544-190-11	SPEAKER		25	A-1-574-062-22	CORD, POWER (WITH CONNECTOR)	
3	4-313-702-91	HANDLE		26	A-1-465-216-11	TUNER, ET (BT-BG201)	
4	X-4380-067-1	BEZEL, ASSY	1,3,5-8,20,30,36,44	27	*A-1296-736-A	A BOARD, COMPLETE	31
5	4-386-710-01	CATCHER, PUSH		28	1-452-032-00	MAGNET, DISK; 10MM ϕ	
6	4-397-459-01	PANEL, CONTROL		29	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
7	4-397-456-01	BUTTON, POWER		30	4-397-455-01	WINDOW, ORNAMENTAL	
8	4-329-112-00	SPRING, COMPRESSION		31	*1-630-438-11	SC BOARD	
9	4-372-556-11	SHEET, BLOTTING		32	*1-630-437-11	K BOARD	
10	Δ A-8-737-951-05	PICTURE TUBE (A46JNL10X)		33	*1-575-691-11	CABLE, PIN	
11	3-703-961-01	SPACER, DY		34	*4-387-054-01	COVER, LED HOLDER	
12	4-307-249-00	SCREW (5), TAPPING		35	*4-394-974-01	CASE (BOTTOM LID), SHIELD	
13	1-452-277-00	MAGNET, BMC		36	4-397-458-01	BUTTON, MULTI	
14	*4-397-451-01	HOLDER, PC BOARD		37	4-394-972-01	CAP, POWER	
15	Δ A-1-426-307-11	COIL, DEMAGNETIZATION		38	*4-387-889-01	BRACKET (B), LIGHT GUIDE	
16	4-397-460-01	COVER, REAR		39	*4-387-890-01	GUIDE, LIGHT	
17	*A-1330-984-A	C BOARD, COMPLETE		40	4-308-870-00	CLIP, LEAD WIRE	
18	*4-341-778-01	BAND, DEGAUSSING COIL		41	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
19	4-369-318-00	SPRING, TENSION		44	3-831-441-99	SPACER (B)	
20	3-662-365-00	SHAFT (S), DOOR					
21	Δ A-1-451-279-21	DEFLECTION YOKE (Y19PXA)					
22	Δ A-1-439-424-11	TRANSFORMER ASSY, FLYBACK (NX-1700L)					
23	Δ A-1-417-149-11	MIXER, U/V					

SECTION 7

ELECTRICAL PARTS LIST

A

NOTE :

The components identified by shading and mark  are critical for safety.
Replace only with part number.

Replace only with part number specified.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS COILS
 $MF : \mu F, PF : \mu\mu F$ $MMH : mH, UH : \mu H$

RESISTORS

- All resistors are in ohms
- F : nonflammable

REF. NO.	PART NO.	DESCRIPTION		REMARK		REF. NO.	PART NO.	DESCRIPTION		REMARK	
*A-1296-736-A		A BOARD, COMPLETE				C213	1-124-477-11	ELECT	47MF	20%	16V
		*****				C214	1-124-791-11	ELECT	1MF	20%	50V
*I-508-765-00		PIN, CONNECTOR (5MM PITCH) 3P				C251	1-124-557-11	ELECT	1000MF	20%	25V
*I-508-768-00		PIN, CONNECTOR (5MM PITCH) 6P				C253	1-126-233-11	ELECT	22MF	20%	50V
*I-564-505-11		PLUG, CONNECTOR 2P				C254	1-124-120-11	ELECT	220MF	20%	16V
*I-564-508-11		PLUG, CONNECTOR 5P				C255	1-130-483-00	MYLAR	0.01MF	5%	50V
*I-564-509-11		PLUG, CONNECTOR 6P				C256	1-130-495-00	MYLAR	0.1MF	5%	50V
*I-565-395-11		PIN, CONNECTOR 3P				C257	1-130-475-00	MYLAR	0.0022MF	5%	50V
*I-565-498-11		CONNECTOR, BOARD TO BOARD 7P				C259	1-126-103-11	ELECT	470MF	20%	16V
*I-568-536-11		PLUG (MINIATURE DY) 6P				C266	1-124-791-11	ELECT	1MF	20%	50V
*4-341-751-01		EYELET (EY6, EY7, EY9, EY11, EY12, EY13, EY14, EY15, EY16, EY17, EY18, EY19, EY21, EY22, EY23, EY24)				C301	1-136-169-00	FILM	0.22MF	5%	50V
*4-341-752-01		EYELET (EY1, EY2, EY3, EY4, EY5)				C302	1-124-927-11	ELECT	4.7MF	20%	50V
		<CAPACITOR>				C303	1-136-169-00	FILM	0.22MF	5%	50V
C001	1-123-875-11	ELECT	10MF	20%	50V	C304	1-136-169-00	FILM	0.22MF	5%	50V
C002	1-124-925-11	ELECT	2.2MF	20%	50V	C305	1-136-169-00	FILM	0.22MF	5%	50V
C004	1-126-101-11	ELECT	100MF	20%	16V	C307	1-130-491-00	MYLAR	0.047MF	5%	50V
C005	1-130-495-00	MYLAR	0.1MF	5%	50V	C308	1-130-487-00	MYLAR	0.022MF	5%	50V
C006	1-124-925-11	ELECT	2.2MF	20%	50V	C309	1-124-791-11	ELECT	1MF	20%	50V
C007	1-102-963-00	CERAMIC	33PF	5%	50V	C310	1-130-495-00	MYLAR	0.1MF	5%	50V
C008	1-130-483-00	MYLAR	0.01MF	5%	50V	C311	1-126-101-11	ELECT	100MF	20%	16V
C011	1-123-875-11	ELECT	10MF	20%	50V	C313	1-136-173-00	FILM	0.47MF	5%	50V
C012	1-130-495-00	MYLAR	0.1MF	5%	50V	C314	1-136-167-00	FILM	0.15MF	5%	50V
C014	1-130-493-00	MYLAR	0.068MF	5%	50V	C315	1-136-173-00	FILM	0.47MF	5%	50V
C015	1-130-493-00	MYLAR	0.068MF	5%	50V	C316	1-102-074-00	CERAMIC	0.001MF	10%	50V
C016	1-123-875-11	ELECT	10MF	20%	50V	C317	1-130-475-00	MYLAR	0.0022MF	5%	50V
C017	1-123-875-11	ELECT	10MF	20%	50V	C318	1-106-367-00	MYLAR	0.01MF	10%	200V
C018	1-123-875-11	ELECT	10MF	20%	50V	C319	1-126-233-11	ELECT	22MF	20%	50V
C019	1-123-875-11	ELECT	10MF	20%	50V	C320	1-124-119-00	ELECT	330MF	20%	16V
C020	1-126-101-11	ELECT	100MF	20%	16V	C321	1-124-925-11	ELECT	2.2MF	20%	50V
C021	1-124-791-11	ELECT	1MF	20%	50V	C322	1-102-824-00	CERAMIC	470PF	5%	50V
C023	1-123-875-11	ELECT	10MF	20%	50V	C323	1-136-169-00	FILM	0.22MF	5%	50V
C024	1-136-169-00	FILM	0.22MF	5%	50V	C325	1-101-004-00	CERAMIC	0.01MF	5%	50V
C026	1-130-495-00	MYLAR	0.1MF	5%	50V	C326	1-102-978-00	CERAMIC	220PF	5%	50V
C028	1-102-110-00	CERAMIC	220PF	10%	50V	C380	1-124-122-11	ELECT	100MF	20%	50V
C082	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C512	1-131-350-00	TANTALUM	3.3MF	10%	25V
C083	1-101-880-00	CERAMIC	47PF	10%	50V	C513	1-124-791-11	ELECT	1MF	20%	50V
C150	1-124-791-11	ELECT	1MF	20%	50V	C528	1-102-111-00	CERAMIC	270PF	10%	50V
C151	1-130-491-00	MYLAR	0.047MF	5%	50V	C531	1-123-875-11	ELECT	10MF	20%	50V
C152	1-124-791-11	ELECT	1MF	20%	50V	C551	1-126-105-11	ELECT	1000MF	20%	35V
C153	1-124-791-11	ELECT	1MF	20%	50V	C552	1-124-122-11	ELECT	100MF	20%	50V
C159	1-123-875-11	ELECT	10MF	20%	50V	C553	1-130-481-00	MYLAR	0.0068MF	5%	50V
C162	1-136-173-00	FILM	0.47MF	5%	50V	C554	1-102-244-00	CERAMIC	220PF	10%	500V
C203	1-124-360-00	ELECT	1000MF	20%	16V	C555	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C207	1-124-925-11	ELECT	2.2MF	20%	50V	C556	1-123-875-11	ELECT	10MF	20%	50V
C210	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C558	1-124-479-11	ELECT	330MF	20%	25V
C211	1-124-927-11	ELECT	4.7MF	20%	50V	C559	1-124-360-00	ELECT	1000MF	20%	18V
C212	1-124-927-11	ELECT	4.7MF	20%	50V	C601	Δ.1-136-548-13	FILM	0.1MF	20%	250V
C207	1-124-925-11	ELECT	2.2MF	20%	50V	C602	Δ.1-161-830-51	CERAMIC	0.0047MF	20%	500V
C210	1-102-125-00	CERAMIC	0.0047MF	10%	50V	C603	Δ.1-136-548-13	FILM	0.1MF	20%	250V
C211	1-124-927-11	ELECT	4.7MF	20%	50V	C604	Δ.1-161-830-51	CERAMIC	0.0047MF	20%	500V
C212	1-124-927-11	ELECT	4.7MF	20%	50V	C605	Δ.1-161-830-51	CERAMIC	0.0047MF	20%	500V

A

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C606	1-125-555-11	ELECT	330MF	20%	400V	D011	8-719-109-66	DIODE RD3.3ES-B2
C607	1-106-218-00	MYLAR	0.082MF	10%	100V	D013	8-719-311-89	DIODE SEL1222R-C
C608	1-162-134-11	CERAMIC	470PF	10%	2KV	*4-387-028-01	HOLDER, LED; D013	
C610	1-162-318-11	CERAMIC	0.001MF	10%	500V	D020	8-719-911-19	DIODE ISS119
C612	1-124-480-11	ELECT	470MF	20%	25V	D021	8-719-911-19	DIODE ISS119
C613	1-102-820-00	CERAMIC	330PF	5%	50V	D151	8-719-109-85	DIODE RD5.1ES-B2
C614	1-136-109-00	FILM	0.68MF	5%	200V	D152	8-719-109-98	DIODE RD6.8ES-B3
C615	1-123-024-21	ELECT	33MF		160V	D153	8-719-109-98	DIODE RD6.8ES-B3
C616	1-162-134-11	CERAMIC	470PF	10%	2KV	D154	8-719-109-98	DIODE RD6.8ES-B3
C617	1-136-170-00	FILM	0.27MF	5%	50V	D155	8-719-911-19	DIODE ISS119
C619 A	1-161-830-51	CERAMIC	0.0847MF		500V	D200	8-719-109-93	DIODE RD6.2ES-B2
C666	1-162-135-11	CERAMIC	560PF	10%	2KV	D201	8-719-109-50	DIODE RD2.0ES-B1
C667	1-162-134-11	CERAMIC	470PF	10%	2KV	D310	8-719-000-06	DIODE MC921
C801	1-123-024-21	ELECT	33MF		160V	D320	8-719-911-19	DIODE ISS119
C802	1-106-367-00	MYLAR	0.01MF	10%	200V	D551	8-719-911-55	DIODE U05G
C804	1-162-318-11	CERAMIC	0.001MF	10%	500V	D601 A	8-719-945-90	DIODE RD13ES-B1
C805	1-102-244-00	CERAMIC	220PF	10%	500V	D602	8-719-300-33	DIODE RU-3AM
C806	1-130-483-00	MYLAR	0.01MF	5%	50V	D604	8-719-979-85	DIODE EGP20G
C807	1-136-111-00	FILM	1MF	5%	200V	D605	8-719-300-33	DIODE RU-3AM
C808 A	1-136-313-51	MYLAR	0.0847MF		400V	D606	8-719-300-33	DIODE RU-3AM
C809 A	1-162-115-51	CERAMIC	330PF	10%	2KV	D607	8-719-911-55	DIODE U05G
C810	1-130-492-11	MYLAR	0.056MF	5%	50V	D608	8-719-303-49	DIODE R2M
C812 A	1-136-545-14	MYLAR	0.056MF	5%	2KV	D801	8-719-945-80	DIODE ERC06-15S
C813	1-130-481-00	MYLAR	0.0068MF	5%	50V	D802	8-719-928-08	DIODE ERD28-08S
C814	1-123-875-11	ELECT	10MF	20%	50V	D851	8-719-300-33	DIODE RU-3AM
C815 A	1-129-898-51	FILM	0.0022MF	5%	630V	D852	8-719-300-65	DIODE ES1F
C816	1-124-634-11	ELECT	1MF	20%	250V	D853	8-719-300-33	DIODE RU-3AM
C817	1-106-375-12	MYLAR	0.022MF	10%	100V	D855	8-719-300-33	DIODE RU-3AM
C818	1-124-477-11	ELECT	47MF	20%	25V	D856	8-719-110-35	DIODE RD13ES-B1
C820	1-162-116-00	CERAMIC	680PF	10%	2KV	D857	8-719-911-55	DIODE U05G
C821	1-106-399-00	MYLAR	0.22MF	10%	200V	D858	8-719-911-55	DIODE U05G
C822	1-136-569-11	FILM	1.2MF	5%	200V	D860	8-719-911-19	DIODE ISS119
C825	1-106-367-00	MYLAR	0.01MF	10%	200V	D864	8-719-911-55	DIODE U05G
C826	1-162-116-00	CERAMIC	680PF	10%	2KV			
C850	1-124-122-11	ELECT	100MF	20%	35V			
C851	1-123-948-00	ELECT	22MF	20%	250V	DL301	1-415-122-31	DELAY LINE, 1H (PAL)
C852	1-162-114-00	CERAMIC	0.0047MF		2KV			
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V			
C854	1-124-479-11	ELECT	330MF	20%	25V			
C855	1-124-360-00	ELECT	1000MF	20%	16V			
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V	F601 A	1-532-350-11	FUSE, TIME-LAG 1A/250V
C857	1-106-383-00	MYLAR	0.047MF	10%	100V	*1-533-189-11	HOLDER, FUSE; F601	
C858	1-124-477-11	ELECT	47MF	20%	25V			
C859	1-130-473-00	MYLAR	0.0015MF	5%	50V			
C860	1-102-228-00	CERAMIC	470PF	10%	500V			
C861	1-106-347-00	MYLAR	0.0015MF	10%	100V			
C862	1-124-478-11	ELECT	100MF	20%	25V			
C875	1-124-045-00	ELECT	4.7MF	20%	50V			
C895	1-130-483-00	MYLAR	0.01MF	5%	50V			
<COMPOSITION CIRCUIT BLOCK>								
CP002	1-233-153-11	COMPOSITION CIRCUIT BLOCK				IC202	8-759-800-81	IC LA7016
CP301	1-236-525-11	NETWORK, C				IC203	8-759-800-81	IC LA7016
<TRIMMER>								
CV358	1-141-245-00	TRIMMER, CERAMIC				IC251	8-759-985-06	IC TDA2007
CV443	1-141-245-00	TRIMMER, CERAMIC				IC301	8-752-036-21	IC CXA1213S
<DIODE>								
D008	8-719-911-19	DIODE ISS119				IC551	8-759-113-05	IC UPC1488H
D010	8-719-911-19	DIODE ISS119						
<IF BLOCK>								
IF201	1-466-138-11	IF BLOCK (IFD-380A)				IC601	8-749-901-40	IC STR50115B
						4-377-115-01	SPACER (A), MICA; IC601	
						4-394-984-01	SPRING; IC601	
						IC801	8-759-945-58	IC RC4558P
						IC851	8-759-982-34	IC RC78M09FA

A

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
				R023	1-249-462-11	CARBON	22K 5% 1/4W
				R024	1-247-891-00	CARBON	330K 5% 1/4W
				R025	1-249-429-11	CARBON	10K 5% 1/4W
				R026	1-216-464-11	METAL OXIDE	18K 5% 2W
				R027	1-249-441-11	CARBON	100K 5% 1/4W
				R028	1-249-433-11	CARBON	22K 5% 1/4W
L151	1-410-470-11	INDUCTOR 10UH		R029	1-249-417-11	CARBON	1K 5% 1/4W
L301	1-408-406-00	INDUCTOR 5.6UH		R030	1-249-423-11	CARBON	3.3K 5% 1/4W
L604	1-410-397-21	FERRITE BEAD INDUCTOR		R031	1-247-883-00	CARBON	150K 5% 1/4W
L803A	1-410-397-31	FERRITE BEAD INDUCTOR		R032	1-249-429-11	CARBON	10K 5% 1/4W
L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		R033	1-249-437-11	CARBON	47K 5% 1/4W
L805A	1-459-760-13	COIL, HORIZONTAL LINEARITY		R034	1-249-423-11	CARBON	3.3K 5% 1/4W
L807	1-459-390-00	COIL (WITH CORE)		R035	1-249-431-11	CARBON	15K 5% 1/4W
L808	1-408-239-00	INDUCTOR 4.7MMH		R036	1-249-433-11	CARBON	22K 5% 1/4W
L809	1-459-407-00	COIL, FERRITE CHOKE		R037	1-247-887-00	CARBON	220K 5% 1/4W
L821	1-459-104-00	COIL, DUST CORE		R038	1-249-429-11	CARBON	10K 5% 1/4W
				R039	1-247-887-00	CARBON	220K 5% 1/4W
				R040	1-247-883-00	CARBON	150K 5% 1/4W
				R041	1-249-433-11	CARBON	22K 5% 1/4W
				R042	1-214-919-00	CARBON	180K 5% 1/2W
				R043	1-249-417-11	CARBON	1K 5% 1/4W
PS801A	1-532-679-91	LINK, IC (ICP-N15) 0.6A		R044	1-247-883-00	CARBON	220K 5% 1/4W
				R045	1-247-887-00	CARBON	150K 5% 1/4W
				R046	1-249-431-11	CARBON	22K 5% 1/4W
				R047	1-249-433-11	CARBON	180K 5% 1/2W
				R048	1-214-919-00	CARBON	1K 5% 1/4W
				R049	1-249-417-11	CARBON	1K 5% 1/4W
Q001	8-729-808-36	TRANSISTOR 2SK669		R050	1-249-425-11	CARBON	4.7K 5% 1/4W
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE		R051	1-249-417-11	CARBON	1K 5% 1/4W
Q003	8-729-119-76	TRANSISTOR 2SA1175-HFE		R052	1-249-417-11	CARBON	1K 5% 1/4W
Q004	8-729-900-80	TRANSISTOR DTC114ES		R053	1-249-417-11	CARBON	1K 5% 1/4W
Q005	8-729-900-36	TRANSISTOR DTC124ES		R054	1-247-713-11	CARBON	1K 5% 1/4W
Q006	8-729-119-78	TRANSISTOR 2SC2785-HFE		R055	1-247-713-11	CARBON	1K 5% 1/4W
Q007	8-729-119-78	TRANSISTOR 2SC2785-HFE		R056	1-249-425-11	CARBON	1K 5% 1/4W
Q151	8-729-900-61	TRANSISTOR DTA114ES		R057	1-249-417-11	CARBON	1K 5% 1/4W
Q153	8-729-900-61	TRANSISTOR DTA114ES		R058	1-249-441-11	CARBON	100K 5% 1/4W
Q154	8-729-900-61	TRANSISTOR DTA114ES		R059	1-249-431-11	CARBON	15K 5% 1/4W
Q201	8-729-119-78	TRANSISTOR 2SC2785-HFE		R060	1-249-417-11	CARBON	1K 5% 1/4W
Q202	8-729-119-78	TRANSISTOR 2SC2785-HFE		R061	1-247-717-11	CARBON	2.2K 5% 1/4W
Q301	8-729-119-78	TRANSISTOR 2SC2785-HFE		R062	1-249-421-11	CARBON	2.2K 5% 1/4W
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE		R063	1-249-421-11	CARBON	2.2K 5% 1/4W
Q303	8-729-119-76	TRANSISTOR 2SA1175-HFE		R064	1-249-421-11	CARBON	2.2K 5% 1/4W
Q304	8-729-119-78	TRANSISTOR 2SC2785-HFE		R065	1-249-421-11	CARBON	2.2K 5% 1/4W
Q305	8-729-119-78	TRANSISTOR 2SC2785-HFE		R066	1-249-421-11	CARBON	2.2K 5% 1/4W
Q306	8-729-119-78	TRANSISTOR 2SC2785-HFE		R067	1-249-421-11	CARBON	2.2K 5% 1/4W
Q310	8-729-900-89	TRANSISTOR DTC144ES		R068	1-249-421-11	CARBON	2.2K 5% 1/4W
Q551	8-729-900-89	TRANSISTOR DTC144ES		R069	1-249-410-11	CARBON	2.2K 5% 1/4W
Q552	8-729-900-89	TRANSISTOR DTC144ES		R070	1-249-410-11	CARBON	270 5% 1/4W
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK		R071	1-249-421-11	CARBON	2.2K 5% 1/4W
Q802	8-729-802-50	TRANSISTOR 2SD1649-CA		R072	1-249-417-11	CARBON	1K 5% 1/4W
Q803	4-394-984-01	SPRING; Q802		R073	1-249-417-11	CARBON	1K 5% 1/4W
Q803	8-729-119-78	TRANSISTOR 2SC2785-HFE		R074	1-249-425-11	CARBON	4.7K 5% 1/4W
Q821	8-729-107-26	TRANSISTOR 2SD1585-K		R075	1-249-413-11	CARBON	470 5% 1/4W
Q851	8-729-107-26	TRANSISTOR 2SD1585-K		R076	1-249-435-11	CARBON	33K 5% 1/4W
				R077	1-249-430-11	CARBON	12K 5% 1/4W
				R078	1-249-432-11	CARBON	18K 5% 1/4W
				R079	1-247-725-11	CARBON	10K 5% 1/4W
				R080	1-249-429-11	CARBON	10K 5% 1/4W
R004	1-249-425-11	CARBON 4.7K 5% 1/4W		R081	1-249-421-11	CARBON	2.2K 5% 1/4W
R005	1-249-425-11	CARBON 4.7K 5% 1/4W		R082	1-249-417-11	CARBON	1K 5% 1/4W
R006	1-249-417-11	CARBON 1K 5% 1/4W		R083	1-249-417-11	CARBON	1K 5% 1/4W
R007	1-249-417-11	CARBON 1K 5% 1/4W		R084	1-249-425-11	CARBON	100K 5% 1/4W
R008	1-249-427-11	CARBON 6.8K 5% 1/4W		R085	1-249-418-11	CARBON	1.2K 5% 1/4W
R010	1-247-717-11	CARBON 2.2K 5% 1/4W		R086	1-249-385-11	CARBON	2.2 5% 1/4W
R011	1-249-469-11	CARBON 100K 5% 1/4W		R087	1-249-421-11	CARBON	2.2K 5% 1/4W
R013	1-249-433-11	CARBON 22K 5% 1/4W		R088	1-249-429-11	CARBON	10K 5% 1/4W
R016	1-249-421-11	CARBON 2.2K 5% 1/4W		R089	1-249-441-11	CARBON	100K 5% 1/4W
R017	1-249-441-11	CARBON 100K 5% 1/4W		R090	1-249-419-11	CARBON	1.5K 5% 1/4W
R018	1-249-427-11	CARBON 6.8K 5% 1/4W		R091	1-249-417-11	CARBON	1K 5% 1/4W
R020	1-249-420-11	CARBON 1.8K 5% 1/4W		R092	1-247-899-11	CARBON	680K 5% 1/4W
R021	1-249-433-11	CARBON 22K 5% 1/4W		R093	1-247-704-11	CARBON	220 5% 1/4W
R022	1-249-433-11	CARBON 22K 5% 1/4W					

A

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

A S C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK						
<CRYSTAL>													
X001	1-577-619-11	VIBRATOR, CRYSTAL		T402	1-404-496-00	COIL							
X301	1-577-611-11	OSCILALTOR, CERAMIC		T403	1-404-584-11	COIL							
X358	1-567-505-11	OSCILLATOR, CRYSTAL		*****									
X443	1-567-504-11	OSCILLATOR, CRYSTAL		*A-1330-984-A C BOARD, COMPLETE									
<MODULE>													
YCM301	1-235-833-11	YC MODULE		*1-506-371-00	PIN, CONNECTOR 2P								
YCM302	1-236-228-11	FILTER MODULE		*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P								

*1-630-438-11 SC BOARD													

*1-565-483-11 CONNECTOR, BOARD TO BOARD 7P													
<CAPACITOR>													
C401	1-124-477-11	ELECT	47MF	20%	16V	C701	1-102-112-00	CERAMIC	330PF	10%	50V		
C402	1-101-004-00	CERAMIC	0.01MF		50V	C702	1-102-112-00	CERAMIC	330PF	10%	50V		
C403	1-101-890-00	CERAMIC	75PF	5%	50V	C703	1-102-113-00	CERAMIC	390PF	10%	50V		
C404	1-102-961-00	CERAMIC	27PF	5%	50V	C704	1-123-875-11	ELECT	10MF	20%	50V		
C405	1-136-165-00	FILM	0.1MF	5%	50V	C705	1-101-006-00	CERAMIC	0.047MF		50V		
<COIL>													
C406	1-102-816-00	CERAMIC	120PF	5%	50V	C706	1-123-875-11	ELECT	10MF	20%	50V		
C407	1-124-791-11	ELECT	1MF	20%	50V	C707	1-129-718-00	FILM	0.022MF	10%	630V		
C408	1-108-689-11	MYLAR	0.0056MF	5%	50V	C708	1-162-116-00	CERAMIC	680PF	10%	2KV		
C409	1-101-004-00	CERAMIC	0.01MF		50V	<TRANSISTOR>							
C410	1-102-816-00	CBRAMIC	120PF	5%	50V	Q701	8-729-906-38	TRANSISTOR	2SC3271-N				
C411	1-136-165-00	FILM	0.1MF	5%	50V	Q702	8-729-906-38	TRANSISTOR	2SC3271-N				
C412	1-102-959-00	CERAMIC	22PF	5%	50V	Q703	8-729-906-38	TRANSISTOR	2SC3271-N				
C413	1-101-890-00	CERAMIC	75PF	5%	50V	<RESISTOR>							
C414	1-102-816-00	CERAMIC	120PF	5%	50V	R701	1-249-414-11	CARBON	560	5%	1/4W		
C415	1-136-165-00	FILM	0.1MF	5%	50V	R702	1-249-422-11	CARBON	2.7K	5%	1/4W		
<IC>													
IC401	8-752-036-22	IC CXA1214P				R703	1-247-700-11	CARBON	100	5%	1/4W		
<COIL>													
L401	1-408-411-00	INDUCTOR		15UH		R704	1-249-421-11	CARBON	2.2K	5%	1/4W		
L402	1-408-411-00	INDUCTOR		15UH		R705	1-249-412-11	CARBON	390	5%	1/4W		
<TRANSISTOR>													
Q401	8-729-119-78	TRANSISTOR 2SC2785-HRE				R706	1-249-422-11	CARBON	2.7K	5%	1/4W		
<RESISTOR>													
R401	1-247-704-11	CARBON	220	5%	1/4W	R707	1-249-413-11	CARBON	470	5%	1/4W		
R402	1-249-412-11	CARBON	390	5%	1/4W	R708	1-249-405-11	CARBON	100	5%	1/4W		
R403	1-249-412-11	CARBON	390	5%	1/4W	R709	1-249-422-11	CARBON	2.7K	5%	1/4W		
R404	1-249-408-11	CARBON	180	5%	1/4W	R710	1-249-412-11	CARBON	390	5%	1/4W		
R405	1-249-417-11	CARBON	1K	5%	1/4W	<TRANSFORMER>							
R406	1-247-717-11	CARBON	2.2K	5%	1/4W	R711	1-249-423-11	CARBON	3.3K	5%	1/4W		
R407	1-247-903-00	CARBON	1M	5%	1/4W	R712	1-249-411-11	CARBON	330	5%	1/4W		
<TRANSFORMER>													
T401	1-404-496-00	COIL				R713	1-249-429-11	CARBON	10K	5%	1/4W		
<TRANSFORMER>													
						R714	1-247-700-11	CARBON	100	5%	1/4W		
						R715	1-202-824-00	SOLID	3.3K	10%	1/2W		
						<TRANSFORMER>							
						R716	1-215-924-00	METAL OXIDE	15K	5%	3W		
						R717	1-202-824-00	SOLID	3.3K	10%	1/2W		
						R718	1-215-924-00	METAL OXIDE	15K	5%	3W		
						R719	1-202-824-00	SOLID	3.3K	10%	1/2W		
						R720	1-215-924-00	METAL OXIDE	15K	5%	3W		
						<TRANSFORMER>							
						R721	1-202-837-00	SOLID	82K	10%	1/2W		
						R722	1-202-846-00	SOLID	470K	10%	1/2W		
						R723	1-202-848-00	SOLID	680K	10%	1/2W		
						R724	1-202-843-11	SOLID	270K	10%	1/2W		
						R725	1-202-719-00	SOLID	1M	10%	1/2W		
						<TRANSFORMER>							
						R726	1-202-814-11	SOLID	33K	10%	1/2W		
						R727	1-216-391-11	METAL OXIDE	1.5	5%	3W		
						R728	1-202-842-11	SOLID	220K	10%	1/2W		
						R729	1-202-549-00	SOLID	100	10%	1/2W		
						R730	1-249-405-11	CARBON	100	5%	1/4W		

C **K**

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK								
R732	1-249-405-11	CARBON	100 5% 1/4W	R123	1-249-396-11	CARBON	18 5% 1/4W								
R733	1-249-405-11	CARBON	100 5% 1/4W	R130	1-249-434-11	CARBON	27K 5% 1/4W								
<VARIABLE RESISTOR>															
RV701	1-228-992-11	RES, ADJ, CARBON	3.3K	R131	1-249-438-11	CARBON	56K 5% 1/4W								
RV702	1-228-992-11	RES, ADJ, CARBON	3.3K	R132	1-249-396-11	CARBON	18 5% 1/4W								
RV703	1-228-992-11	RES, ADJ, CARBON	3.3K	<TRANSFORMER>											
RV704	1-228-992-11	RES, ADJ, CARBON	3.3K	T101	1-421-823-11	TRANSFORMER, PULSE									
RV705	1-228-992-11	RES, ADJ, CARBON	3.3K	*****											
RV706	1-228-995-00	RES, ADJ, CARBON	22K	MISCELLANEOUS											
RV707Δ	1-230-641-21	RES, ADJ, METAL GLAZE	2.2M	*****											
RV708	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M	Δ.1-426-307-11	COIL, DEMAGNETIZATION										
RV709	1-230-798-11	RES, ADJ, METAL GLAZE	90M	Δ.1-451-279-21	DEFLECTION YOKE (Y19PXA)										
*****				1-452-032-00	MAGNET, DISK; 10MM φ										
*1-630-437-11 K BOARD				1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ										
*****				1-452-277-00	MAGNET, BMC										
Δ.1-537-249-11 TERMINAL BOARD, ANTENNA				SPEAKER											
*1-564-505-11 PLUG, CONNECTOR 2P				Δ.1-574-062-22 CORD, POWER (WITH CONNECTOR)											
*1-564-508-11 PLUG, CONNECTOR 5P				*1-575-691-11 CABLE, PIN											
<MODULE>				V901 Δ.8-737-951-05 PICTURE TUBE (A46JNL10X)											
*****								ACCESSORIES AND PACKING MATERIALS							
*****								*****							
PART NO.	DESCRIPTION	REMARK													
C100 Δ.1-164-002-51	CERAMIC	330PF 20% 400V	Δ.1-417-149-11 MIXER, U/V												
C101 Δ.1-164-002-51	CERAMIC	330PF 20% 400V	1-417-154-11 MATCHING TRANSFORMER, ANTENNA												
C102 Δ.1-164-002-51	CERAMIC	330PF 20% 400V	1-465-316-11 REMOTE COMMANDER (RM-687C)												
C110	1-124-120-11	ELECT	220MF 20% 25V	1-501-372-21 ANTENNA, TELESCOPIC											
C111	1-162-318-11	CERAMIC	0.001MF 10% 500V	1-506-401-31 ADAPTOR, CONVERSION											
C112 Δ.1-162-578-51	CERAMIC	0.0047MF 20% 400V	3-751-063-41 MANUAL, INSTRUCTION												
C113 Δ.1-162-578-51	CERAMIC	0.0047MF 20% 400V	*4-392-859-01 BAG, PROTECTION												
C120	1-124-477-11	ELECT	47MF 20% 16V	*4-397-462-01 CUSHION (UPPER) (ASSY)											
C121	1-126-101-11	ELECT	100MF 20% 16V	*4-397-463-01 CUSHION (LOWER) (ASSY)											
C122	1-126-101-11	ELECT	100MF 20% 16V	*4-397-464-01 INDIVIDUAL CARTON											
C123	1-124-477-11	ELECT	47MF 20% 16V												
C130	1-124-902-00	ELECT	0.47MF 20% 50V												
C131	1-126-101-11	ELECT	100MF 20% 16V												
C132	1-126-101-11	ELECT	100MF 20% 16V												
C133	1-124-477-11	ELECT	47MF 20% 16V												
C134	1-126-101-11	ELECT	100MF 20% 16V												
<DIODE>								<IC>							
D100	8-719-300-33	DIODE RU-3AM		IC101	8-759-982-25	IC RC78L09A		<RESISTOR>							
D120	8-719-016-42	DIODE MC932		R110	1-249-377-11	CARBON	0.47 5% 1/4W F	*****							
D130	8-719-016-42	DIODE MC932		R111 Δ.1-247-289-11	CARBON	8.2M 5% 1W		*****							
*****				R120	1-249-404-00	CARBON	82 5% 1/4W	*****							
*****				R121	1-249-401-11	CARBON	47 5% 1/4W	*****							
*****				R122	1-249-396-11	CARBON	18 5% 1/4W	*****							